

Broad Incidental Take Permit/Authorization – No/Low Impact Activities

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(for use by DNR Staff and ER Certified Reviewers only)

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Broad Incidental Take Permit/Authorization – No/Low Impact Activities

Wisconsin Department of Natural Resources

INTRODUCTION

Background:

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin and therefore approved this broad incidental take permit (used by non-state agencies and individuals) and broad incidental take authorization (used by state agencies), as provided for under s. 29.604 Wis. Stats, to cover these situations. Examples of activities that are considered to have no impact or a low impact and are incorporated into this permit and authorization include land acquisitions, wetland delineations, sign installations and utility maintenance activities.

An incidental take permit or authorization is typically issued on a project-by-project basis, however a broad incidental take permit and authorization (BITP/A) was created for this situation so that separate applications, permit fees and public notice periods are not required.

Coverage:

This no/low BITP/A includes activities within five general categories:

- A. General Activities
- B. Utility Activities
- C. Transportation Activities
- D. Waterways General Permit (GP) Activities
- E. Natural Resources Conservation Service (NRCS) Standard Practices

Process:

Any individual, organization or agency whose activity meets all of the following components (see below) in Table 1, No/Low Impact List for All Species at All Times of the Year, is covered and does not need to conduct any further review for endangered resources.

- Activity
- Description
- Additional Conditions

Please note, if the activity is part of a utility project that is already broken down into pre-defined segments, please coordinate with the Utility Liaison to determine if these segments can be considered stand-alone projects.

Table 2, No/Low Impact List by Taxa Group, is designed for use by **DNR Staff and ER Certified Reviewers only**. Each activity is broken down by Taxa Group. If the activity is covered for that particular Taxa Group, a check mark appears in the column. If the activity is not covered for the entire Taxa Group, additional information is presented in the table, i.e., see Avoidance Measure document, ER Review required for a specific species, etc. If an ER Review is required for the entire Taxa Group, "ER Review required" will appear in the cell.

Avoidance Measures documents have been prepared for the aquatic insect, bird, fish, herptile, mammal, mussel, plant and terrestrial/wetland invertebrate Taxa groups. These documents create additional methods for a project to be covered by the no/low Broad ITP/A, and are included in Appendices A through H.

If the activity is not covered by Table 1, Table 2 or the Avoidance Measures documents, it will require either an ER review (for more information on ER reviews please see: <http://dnr.wi.gov/topic/ERReview/Review.html>) or the submittal of a Proposed Certified ER Review.

Reporting:

Given the diverse nature of the activities, species and environmental conditions to which the no/low BITP/A may be applied, reporting will be required to monitor and verify the use and application of this Permit/Authorization. Reporting applies to all individuals, organizations, and agencies that conduct projects covered under the no/low BITP/A. This information will also be used for future amendments or modifications to the Permit/Authorization to ensure that it achieves its objectives and remains relevant to the covered activities and species.

Responsible parties must either submit an [ER Review Verification Form](#) or an [Annual No/Low BITP/A Report](#). These forms can be submitted to the Bureau of Natural Heritage Conservation (BNHC) through the use of the "Submit by Email" button on the forms. These forms document that the activities were performed in accordance with the specifications, definitions and conditions defined herein. Additionally, the ER Review Verification Form fulfills the requirement of an ER Review and should be attached to other permits to show that ER requirements have been met.

For ER Certified Reviewers, the Annual No/Low BITP/A Report can be included as an Attachment to the Certification Annual Report.

Definitions of Terms:

Above ground facilities—Transformers, pedestals, switch fuse boxes, hand holes, pumping or valve stations or huts

Agricultural—Consists of cropland and farmstead land uses (see below).

Artificial— Consists of manmade materials, examples include synthetic grass, turf or track.

By hand—Work that is conducted by hand with mechanized or non-mechanized equipment.

Clear zone--Roadside area that is required to be free of woody plant growth over 4" caliper or that would impair highway safety.

Cropland—Includes both cultivated and non-cultivated cropland, currently active, or active within the previous year, see below:

1) Cropland-Cultivated

Annually cultivated land planted to row crops, e.g., corn, soybeans; close-grown crops such as oats, wheat; and potatoes and other vegetable crops.

2) Cropland-Non-cultivated

Limited to alfalfa when grass does not constitute greater than 20% of the stand, does not include pasture (see below).

Crushed stone—Includes stone with diameters up to 1 inch. Larger diameters would be considered decorative rock which would be considered an artificial surface for the purposes of this permit.

Emergency—An actual or imminent threat of significant harm to the environment or to public health or safety exists for all or a portion of a project. Also includes a customer power or gas outage, or probable equipment failure leading to a customer power or gas outage.

Erosion control matting—Also known as erosion control blankets, erosion mats or erosion mesh netting, used to prevent erosion during the establishment of vegetation can have detrimental effects on local snake and other wildlife populations. Plastic netting without independent movement of strands can easily entrap animals moving through the area, leading to dehydration, desiccation, and eventually mortality. Netting that contains biodegradable thread with the “leno” or “gauze” weave (contains strands that are able to move independently) appears to have the least impact on animals and should be used in areas adjacent to or near any waterbody. (e.g.). Avoid the use of fine mesh matting that is tied or bonded at the mesh intersections such that the openings in the mesh are fixed in size.

Use the following matting (or something similar): American Excelsior “FibreNet” or “NetFree” products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN or C125BN; Western Excelsior “All Natural” products or DOT Class I Type A Urban, Class I Type B Urban, or Class II Type C.

Farmstead—An agricultural production site which may contain any of the following: livestock production buildings and associated lots, manure and feed storage structures, machine storage/repair facilities, residences and the site is routinely disturbed by human and/or domestic animal activity.

Gravel—Includes stone with diameters up to 1 inch. Larger diameter stone would be considered decorative rock which would be considered an artificial surface for the purposes of this permit.

Manicured/Mowed—Landscape is mowed, height of vegetation is less than 6 inches between mowings, consistent grass coverage with no areas of exposed sandy soil. Typically includes flowerbeds, landscaped areas, residential lawns, golf courses and parks in urban or residential areas. Could include right-of-ways (ROWS) and utility corridors (UCs) (see below), that meet the above definition.

Open-cut trenching—Trench width from 12 to 24 inches, only covered by the no/low BITP in agricultural, urban/residential and manicured ROW/UC land uses. An excavation method where the trench is cut into the ground from the surface using traditional excavation equipment.

Pasture—Land (and the vegetation growing on it) devoted to the production of introduced or indigenous forage for harvest by grazing, cutting, or both, currently or within the previous year.

Primitive Trail—A primitive trail shall be a minimally developed single-file trail with a maximum sustained cleared width normally not exceeding 8 feet and a minimal tread width for the intended use, have a rough, ungraded bed where large rocks, stumps and downed logs may be present. It primarily follows the natural topography, has no or few shallow cuts and fills, and is surfaced with primitive or native materials, except for limited distances where environmental conditions require the use of other materials. Modifications to the natural trail surface are limited to that which is minimally necessary to provide essential environmental protection. (NR44.07(3)e)

Project—Work to complete a task within a contiguous area and set timeframe. A large project may be broken up into smaller projects if there are naturally occurring breaks due to the project schedule, mobilizations/demobilizations or based on mileage markers (as in the case of long linear projects). Requests to break up a large project should be approved by the ERRP.

Road Right-of-way (ROW)—The area comprised of the driving surface (roadway), roadside shoulders and ditch, public utilities, sidewalks, and traffic signals/signs.

Rock trenching —Open-cut trenching through rock using specialized equipment.

Safety mowing—May occur multiple times per season to maintain clear vision areas at intersections or along curves.

Spot herbiciding—Treatments applied through the use of backpack sprayers, spotguns or injectors. In general, this type of application is used to individually treat woody stems, herbicide use is targeted to specific species and drift is controlled.

Undisturbed/unmanicured—Land that is not maintained or mowed, examples include fallow fields (inactive 1 year or more), natural/remnant areas, brownfields, conservation reserve program (CRP) fields, wetlands and waterbodies.

Upland —Any non-wetland areas (see below).

Urban-Residential—Ground cover consists of impermeable surfaces, landscaped areas and manicured lawns (see above).

Utility—Includes the production, transmission, delivery, or furnishing of electrical power, light, heat, water, natural gas, sewer, or telecommunication services.

Utility Corridor (UC)— A strip of land that a utility or telecommunication company uses to construct, maintain, or repair an overhead or underground power line, communication cable, or gas pipeline. Includes space for the line itself along with additional space buffering the line from nearby buildings and tall vegetation.

Utility Maintenance—The repair, replacement or reconstruction of a previously authorized utility facility within an existing right-of-way or utility corridor (see above), but does not result in an increase of capacity or volume.

Utility Vegetation Management – Utility corridor vegetation removal activities are conducted on a 2-5 year cycle, depending on the condition of the vegetation along each individual line. Methods include:

- Non-selective Mechanical Mowing
- Broadcast Foliar Application
- Broadcast Soil-Active Application
- Side Trimming – Work is typically completed through the use of bucket trucks, side-trimmers, or tree-climbers.
- Aerial Saw – Similar to side trimming but involves the use of a helicopter mounted saw.

Vibratory plowing—Trench widths range from 3 to 12 inches, uses a vibratory drive unit and blade attachment to produce a slice in the soil. The vibrator rapidly oscillates, moving the blade a short distance vertically; this vibrating action creates a fracture in the ground in front of the blade, substantially reducing the draft force required for the blade to cut through the ground, as well as reducing resistance on the sides of the blade.

Wetland (defined in s. 23.24, Wis. Stats.)—An area where water is at, near or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wetland conditions. To view Wisconsin Wetland Inventory maps online, go to: <http://dnr.wi.gov/topic/wetlands/inventory.html>.

DRAFT--NOT AUTHORIZED FOR USE**Broad Incidental Take Permit/Authorization****Table 1--No/Low Impact List for All Species at All Times of the Year****If your activity or practice is not listed in this table, or does not match the description and additional conditions, request an ER Review.**

	Activity	Description	Additional Conditions	Rationale for Additional Conditions
A	General Activities			
1-A1	Any activity performed in urban/residential areas or areas covered in manicured lawn or other artificial /paved surface (does not include tree or shrub removal)	These activities may be the same as some listed elsewhere in Table 1, aside from the land cover or habitat conditions. Includes ROW/UC in these land use/land cover types. Access through similar land use type (urban/res, manicured lawn, artificial /paved surface) is included.	Install erosion control measures if within 300' of a wetland or waterbody. For other additional conditions, refer to the County List for Activity 1-A1.	Additional conditions are to limit potential impacts to listed species.
1-A2	Any activity performed in agricultural land or areas covered in crushed stone or gravel (does not include tree or shrub removal)	These activities may be the same as some listed elsewhere in Table 1, aside from the land cover or habitat conditions. Includes ROW/UC in these land use/land cover types. Access through similar land use type (agricultural land, crushed stone, gravel) is included.	Install erosion control measures if within 300' of a wetland or waterbody. For other additional conditions, refer to the County List for Activity 1-A2.	Additional conditions are to limit potential impacts to listed species.
1-A3	General Administration	Strategic and operational planning, budget management, rule and policy development, etc.	None.	Not applicable.
1-A4	Land Acquisition	Any type of land acquisition or ownership change including purchases, sales, transfers, leases, easements, etc. Could include purchases of residential homes or commercial buildings.	Future activities on the land being acquired, sold, etc. may require an ER Review.	Not applicable.
1-A5	Project Planning	Includes wetland delineations, habitat assessments, tree marking and other access by foot. All vehicles and heavy equipment must remain on existing roadways.	None.	Not applicable.
1-A6	Fish Hatchery Operations	Includes all fish production and rearing activities that take place within a fish hatchery.	None.	Not applicable.
1-A7	Rip Rap, Seawall or Wingwall Replacement	Repair or replacement of existing rip rap, seawalls or wingwalls. All impacts must be within the existing footprint, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and September 30th. Implement BMPs (i.e. silt curtain, turbidity barrier)	Date limitations avoid impacts to listed fish and reptile species during spawning and nesting times. If the additional conditions are not able to met, DNR Staff and ER Certified Reviewers, refer to Table 2, Activity 2-A13. Others contact DNRERReview@wi.gov for assistance.
1-A8	Building Repairs	Exterior and interior repairs to existing buildings, such as window replacement, gutter installation, painting, roof repair, interior renovation, electrical repair, etc.	Follow the BMP for Cave Bats , if applicable. For structures greater than 5 stories in height, work must be conducted between August 1st and February 28th.	Additional conditions are to limit potential impacts to listed bat and bird species.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-A9	Sign Installation	Includes trail signs, property signs, roadway signs, or similar activities that contain up to 4 posts per sign. Sign installation occurring off-road must be installed by hand or small equipment and ATV. Heavy equipment may be used for sign installation occurring along a roadway if all materials, vehicles and heavy equipment remain within a roadway, parking lot or routinely mowed area (i.e. mowed 1-3 weeks).	None.	Not applicable.
1-A10	Temporary Stream Crossing	Any temporary stream crossing that doesn't impact the stream below the top of the bank or the streambed.	Bridge must be installed during frozen ground conditions and remain in place a maximum of 160 days. Access is not included.	Restrictions avoid take of listed aquatic species.
1-A11	Minor Surface Disturbance/Excavation	Any underground excavation done by hand and limited in size to 5' long by 5' wide by 5' deep.	Work must be occurring on private land.	Additional conditions are to protect listed plants on public land (see Note 4).
1-A12	Vertical Landfill Expansion	Includes the vertical expansion of an existing, active landfill within the existing footprint.	None.	Not applicable.
1-A13	Continuing Operations	Includes continuing operation of an existing facility with no expansion or change in operations. Typically used for facilities renewing DNR permits related to existing operations (i.e., air or waste permits).	None.	Not applicable.
1-A14	Surveying—Boomshocker, Mini-boomshocker, Stream towboat, Backpack electrofishing, Gillnets, Kick sampling and Trapnets	See Fisheries Management Handbook for definitions.	Report rare species, if found.	Not applicable.
1-A15	Fish Propagation and Stocking--Egg Collection, Rearing, Stocking	See Fisheries Management Handbook for definitions.	None.	Not applicable.
1-A16	Vegetation monitoring--Floristic Quality Assessments, National Wetland Condition Assessment Surveys, Wetland Identification and Delineation	Walk-through surveys including non-destructive vegetation sampling, digging up to four soil pits per 0.5 hectare assessment area for soil sampling. Access through hiking, vehicles, canoe or boat.	All vehicles must remain on existing roadways.	Additional conditions are to limit potential impacts to listed species.
1-A17	Aquatic plant surveys--Point-intercept aquatic macrophyte surveys and early detection AIS meander surveys	Includes use of modified rakeheads and net scoops for plant surveys.	Report rare species, if found.	Not applicable.
1-A18	Archaeological bucket sampling or shovel testing	Includes the collection of up to 1 cubic foot of soil by hand.	None.	Not applicable.
1-A19	Floating/Eco Dock	Floating dock supported by up to four horizontal brackets installed into the bank, on a case-by-case basis as determined by Water Quality permit.	Does not include projects with new seawall or other anchoring structures.	Limitations are to avoid impacts to listed mussel species.
1-A20	Small Personal Piers/Single Piling/Pile Clusters	On a case-by-case basis as determined by Water Quality permit.	Must follow most current guidance for mussel relocation prior to start of project.	Limitations are to avoid impacts to listed mussel species.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-A21	Pesticide applications on maintained landscapes	Includes applications on nurseries, golf courses (maintained areas only) and fish hatcheries.	Drift must be controlled to avoid impacts to unmaintained areas.	Limitations are to avoid impacts to listed species.
1-A22	Burn barrels	Includes the burning of only dry, nonrecyclable paper or cardboard and untreated or non-painted wood products	Follow burn barrel guidelines	Limitations are to avoid wildfires and other health and environmental impacts
B Utility Activities				
1-B1	Horizontal/Directional Drilling	For stream/wetland/waterway crossings, must have Emergency Action Plan in place which conforms to DNR standards . Work conducted from bank, no equipment in streambed.	All depths must be >36", but <60".	Depth restriction is protective of hibernating herptiles and bat hibernacula.
1-B2	Vegetation management for access and UC maintenance (selective clearing)	Hand-operated equipment (hedge trimmer, weed eater, chainsaw, etc.).	Excludes the following counties: Ashland, Bayfield, Forest, Oneida, Price, Sawyer and Vilas. Excludes wetland habitat in the following counties: Door, Grant, Iowa, Kewaunee (northern half), Ozaukee, and Richland. Work must be conducted between October 1st and February 28th if outside of urban/residential areas.	Counties listed are within the range of the American Marten and the Hine's Emerald Dragonfly which are not covered. Time restriction includes avoidance periods for all listed bird species.
1-B3	Pulling or blowing utility lines or communication cable with duct already installed	Ductwork has already been installed and cable, fiberoptic, gas or electric lines are pushed through with air created by pumps or pulled through by hand. Machines or equipment are relatively small requiring 1-3 people.	None.	Not applicable.
1-B4	Aboveground inspections, annual inspections, surveys, minor maintenance and repair	On foot, ATV, Argo, Bombardier ATV (<8X8), bucket truck or equivalent vehicles. Access through existing manicured ROW/UC is included.	If not on foot, excludes the following counties: Columbia, Dane, Grant, Green, Iowa, Rock, Sauk.	Counties listed are within the range of a rare reptile.
1-B5	Spanning waterways with overhead lines	Involves two trucks on either side of the waterway and a boat in the waterway to assist in installation.	None.	Not applicable.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
B Utility Activities--Telecommunication Facilities				
1-B6	Communication Tower/Non-Tower Structures Collocations/Repairs	Collocation to or repairs on an existing tower/building/water tower/other non-tower structure, with no structure height increase and no expansion outside of the existing compound.	For buildings/structures 5 stories in height or more, work must be conducted between August 1st and February 28th.	Additional conditions are to protect listed bird species.
1-B7	New Cell Tower Construction (see habitat types in Description)	Tower construction (including all associated disturbance, below ground excavation, material storage, access routes, etc.) that is occurring entirely within agricultural land , manicured/mowed lawn or pavement. Tower must be less than 200 feet above ground level, unguyed, unlit (if FAA regulations permit) and of monopole or lattice construction.	For additional conditions in agricultural land, refer to the County List for Activity 1-A2.	Additional conditions are to protect listed bird and reptile species. Also see general recommendations on cell tower construction.
C Transportation Activities				
1-C1	Bridges--Repave Existing Structure	Paving of existing bridge structure and approaches	Follow Cave Bat Broad IT . All materials must be contained, none dropped in water.	Additional conditions are to protect listed aquatic species.
1-C2	Fence/Beam Guard Installation	Includes roadway fencing, beam guards, and similar structures along roadways. Heavy equipment may be used for fence installation occurring along a roadway if all material, vehicles and heavy equipment remain within or adjacent to a roadway, parking lot or routinely mowed area (i.e. mowed 1-3 weeks).	For additional conditions, refer to the County List for Activity 1-C2.	To avoid impacting rare turtle species.
1-C3	Signage/Signals Installation	Installation of signs or signals along or within roadways or bike/pedestrian trails. Includes roadway signs, trail signs, property signs, etc. that contain up to 4 posts. Heavy equipment may be used for sign installation occurring along or adjacent to a roadway if all material, vehicles and heavy equipment remain within or along a roadway or routinely mowed area (i.e. mowed 1-3 weeks). Sign installation occurring off-road must be installed by hand or small equipment and ATV.	None.	Not applicable.
1-C4	Existing Trail Maintenance	Includes the removal of fallen trees and routine mowing of maintained trails through the use of hand-held equipment or push mowers.	None.	Not applicable.
1-C5	Primitive Trail Development	Includes hand installation of Primitive Trail . Applies to the following habitat/land use types: agricultural, manicured/mowed areas, existing fire roads or existing social use trails.	None.	Not applicable.
1-C6	Existing Trail--Bridge Replacement	Replacement of existing bridge using similar materials and within existing footprint.	None.	Not applicable.

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1-C7	Placement of erosion control matting	Placement of erosion control matting (as defined in the introduction of the no/low broad IT) within the footprint of existing social use trails	None.	Not applicable.
1-C8	Installation of Positive Train Control (PTC) Monopoles	Monopole construction (including all associated disturbance, below ground excavation, material storage, access routes, etc.) that is occurring from or immediately adjacent to existing railroad tracks. Tower must be equal to or less than 100 feet above ground level, unguyed and unlit.	None.	Not applicable.
D	Waterways General Permit Activities			
1-D1	Habitat Fish crib	See GP Application Checklist.	None.	Not applicable.
1-D2	Habitat Fish sticks	See GP Application Checklist.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D3	Habitat Fish sticks, add. Sites	See GP Application Checklist.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D4	Habitat Fish tree drop	See GP Application Checklist.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D5	Habitat Wildlife nesting structure	See GP Application Checklist.	If dredging or deposition of material is required, work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D6	Lake shore erosion control Riprap repair	See GP Application Checklist. with the following addition: all impacts must be within the existing riprap footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D7	Lake shore erosion control Riprap replacement	See GP Application Checklist. with the following addition: all impacts must be within the existing riprap footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D8	Lake shore erosion control – Seawall replaced with riprap	See GP Application Checklist. with the following addition: all impacts must be within the existing riprap footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D9	Pond – Landscape	See GP Application Checklist. with the following addition: work must be conducted in areas covered in crushed stone, mowed lawn or other artificial or paved surface.	None.	Not applicable.
1-D10	Pond – Stormwater	See GP Application Checklist. with the following addition: work must be conducted in areas covered in crushed stone, mowed lawn or other artificial or paved surface.	None.	Not applicable.

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1-D11	Stream bank repair of riprap (placed prior to August 1, 2007)	See GP Application Checklist , with the following addition: all impacts must be within the existing riprap footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D12	Stream bank erosion control - Replacement of structure with bio-stabilization	See GP Application Checklist , with the following addition: all impacts must be within the existing structure footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
1-D13	Stream bank erosion control - Replacement with integrated bank treatment	See GP Application Checklist , with the following addition: all impacts must be within the existing structure footprint and above the ordinary high water mark, work must be conducted from an upland shoreline or barge.	Work must be conducted between September 1st and April 15th.	Date limitations avoid impacts to listed fish species during spawning times.
E	Natural Resources Conservation Service (NRCS) Standard Practices			
1-E1	Access Control	NRCS Conservation Practice Standard - Code # 472	No impact on all landscapes.	Not applicable.
1-E2	Access Road	NRCS Conservation Practice Standard - Code # 560	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E3	Agrichemical Handling Facility	NRCS Conservation Practice Standard - Code # 309	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E4	Alley Cropping	NRCS Conservation Practice Standard - Code #311	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E5	Amendments for Treatment of Agricultural Waste	NRCS Conservation Practice Standard - Code # 591	No impact on all landscapes.	Not applicable.
1-E6	Anaerobic Digester	NRCS Conservation Practice Standard - Code # 366	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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1-E7	Animal Mortality Facility	NRCS Conservation Practice Standard - Code # 316	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E8	Animal Trails and Walkways	NRCS Conservation Practice Standard - Code # 575	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E9	Composting Facility	NRCS Conservation Practice Standard - Code # 317	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E10	Conservation Cover	NRCS Conservation Practice Standard - Code # 327	Practice is low impact on Cropland , Farmstead and perennial crop systems (orchards, vineyards, berries and nursery stock); however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E11	Conservation Crop Rotation	NRCS Conservation Practice Standard - Code # 328	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E12	Contour Buffer Strips	NRCS Conservation Practice Standard - Code # 332	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E13	Contour Farming	NRCS Conservation Practice Standard - Code # 330	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E14	Cover Crop	NRCS Conservation Practice Standard - Code # 340	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E15	Critical Area Planting	NRCS Conservation Practice Standard - Code # 342	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E16	Diversion	NRCS Conservation Practice Standard - Code # 362	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E17	Drainage Water Management	NRCS Conservation Practice Standard - Code # 554	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E18	Early Successional Habitat Development & Management	NRCS Conservation Practice Standard - Code #647	Only for shearing performed on frozen ground. Excludes the following counties: Adams, Buffalo, Clark, Columbia, Door, Jackson, Jefferson, Juneau, Kenosha, La Crosse, Marinette, Milwaukee, Monroe, Oconto, Pepin, Racine, Rock, Sauk, Sheboygan, Trempealeau, Walworth, Washington, Waukesha, Wood	Listed counties include the ranges of the Eastern Massasauga, Eastern Ribbonsnake and Western Ribbonsnake which are not covered.
1-E19	Farmstead Energy Improvement	NRCS Conservation Practice Standard - Code # 374	No impact on all landscapes.	Not applicable.
1-E20	Feed Management	NRCS Conservation Practice Standard - Code # 592	No impact on all landscapes.	Not applicable.
1-E21	Fence	NRCS Conservation Practice Standard - Code # 382	With no ground disturbance , practice is low impact on all landscapes ; however, if ground disturbance will occur, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E22	Field Border	NRCS Conservation Practice Standard - Code # 386	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E23	Filter Strip	NRCS Conservation Practice Standard - Code # 393	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E24	Firebreak	NRCS Conservation Practice Standard - Code # 394	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E25	Forage and Biomass Planting	NRCS Conservation Practice Standard - Code # 512	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E26	Forage Harvest Management	NRCS Conservation Practice Standard - Code # 511	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E27	Grade Stabilization Structure	NRCS Conservation Practice Standard - Code # 410	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E28	Grassed Waterway	NRCS Conservation Practice Standard - Code # 412	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E29	Heavy Use Area Protection	NRCS Conservation Practice Standard - Code # 561	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E30	Hedgerow Planting	NRCS Conservation Practice Standard - Code # 422	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E31	Herbaceous Weed Control	NRCS Conservation Practice Standard - Code # 315	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E32	Integrated Pest Management	NRCS Conservation Practice Standard - Code # 595	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E33	Irrigation Pipeline	NRCS Conservation Practice Standard - Code # 430	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E34	Irrigation System, Microirrigation	NRCS Conservation Practice Standard - Code # 441	No impact on all landscapes.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E35	Irrigation System, Sprinkler	NRCS Conservation Practice Standard - Code # 442	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E36	Irrigation System, Tailwater Recovery	NRCS Conservation Practice Standard - Code # 447	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E37	Irrigation Water Management	NRCS Conservation Practice Standard - Code # 449	No impact on all landscapes.	Not applicable.
1-E38	Lined Waterway or Outlet	NRCS Conservation Practice Standard - Code # 468	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E39	Livestock Pipeline	NRCS Conservation Practice Standard - Code # 516	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E40	Mulching	NRCS Conservation Practice Standard - Code # 484	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E41	Nutrient Management	NRCS Conservation Practice Standard - Code # 590	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E42	Prescribed Grazing (Managed Grazing - Wisconsin)	NRCS Conservation Practice Standard - Code # 528	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E43	Pumping Plant	NRCS Conservation Practice Standard - Code # 533	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E44	Residue and Tillage Management--Mulch Till	NRCS Conservation Practice Standard - Code # 345	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E45	Residue and Tillage Management--No Till/Strip Till/Direct Seed	NRCS Conservation Practice Standard - Code # 329	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E46	Residue and Tillage Management--Ridge Till	NRCS Conservation Practice Standard - Code # 346	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E47	Residue Management, Seasonal	NRCS Conservation Practice Standard - Code # 344	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E48	Roof Runoff Structure	NRCS Conservation Practice Standard - Code # 558	No impact on all landscapes.	Not applicable.
1-E49	Roofs and Covers	NRCS Conservation Practice Standard - Code # 367	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E50	Seasonal High Tunnel Systems for Crops	NRCS Conservation Practice Standard - Code # 798	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E51	Sediment Basin	NRCS Conservation Practice Standard - Code # 350	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E52	Solid/Liquid Waste Separation Facility	NRCS Conservation Practice Standard - Code # 632	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E53	Spoil Spreading	NRCS Conservation Practice Standard - Code #572	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E54	Stormwater Runoff Control	NRCS Conservation Practice Standard - Code # 570	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E55	Stripcropping	NRCS Conservation Practice Standard - Code # 585	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E56	Structure for Water Control	NRCS Conservation Practice Standard - Code # 587	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E57	Structures for Wildlife	NRCS Conservation Practice Standard - Code # 649	No impact on all landscapes.	Not applicable.
1-E58	Subsurface Drain	NRCS Conservation Practice Standard - Code # 606	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E59	Terrace	NRCS Conservation Practice Standard - Code # 600	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E60	Trails and Walkways	NRCS Conservation Practice Standard - Code # 568	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E61	Tree/Shrub Establishment	NRCS Conservation Practice Standard - Code # 612	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E62	Tree/Shrub Site Preparation	NRCS Conservation Practice Standard - Code # 490	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E63	Underground Outlet	NRCS Conservation Practice Standard - Code # 620	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E64	Upland Wildlife Habitat Management	NRCS Conservation Practice Standard - Code # 645	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E65	Vegetated Treatment Area	NRCS Conservation Practice Standard - Code # 635	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E66	Waste (Agricultural) Facility Closure	NRCS Conservation Practice Standard - Code # 360	No impact on all landscapes.	Not applicable.
1-E67	Waste (Agricultural) Storage Facility	NRCS Conservation Practice Standard - Code # 313	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

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	Activity	Description	Additional Conditions	Rationale for Additional Conditions
1-E68	Waste (Agricultural) Transfer	NRCS Conservation Practice Standard - Code # 634	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E69	Waste (Agricultural) Treatment	NRCS Conservation Practice Standard - Code # 629	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E70	Water and Sediment Control Basin	NRCS Conservation Practice Standard - Code # 638	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E71	Water Well	NRCS Conservation Practice Standard - Code # 642	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E72	Water Well Decommissioning	NRCS Conservation Practice Standard - Code # 351	No impact on all landscapes.	Only applies when well is cased with pipe.
1-E73	Watering Facility	NRCS Conservation Practice Standard - Code # 614	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.
1-E74	Well Water Testing	NRCS Conservation Practice Standard - Code # 355	No impact on all landscapes.	Not applicable.
1-E75	Wetland Wildlife Habitat Management	NRCS Conservation Practice Standard - Code # 644	Low impact on all landscapes.	Only applies to wood duck boxes and wild rice seeding.
1-E76	Windbreak/Shelterbelt Establishment	NRCS Conservation Practice Standard - Code # 380	Practice is low impact on Cropland and Farmstead ; however, requires further review on Pasture and Undisturbed/Unmanicured Areas.	Additional requirement for Pasture and Undisturbed/Unmanicured Areas is due to the increased species diversity in these habitats since these lands are not routinely maintained/disturbed.

Notes:

1 ROW: Right-of-Way

2 UC: Utility Corridor

3 This Broad ITP/A covers state-listed species only. It does not cover Federal species or species covered under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act. To determine if Federal species are located within the vicinity of the project site, please refer to the USFWS' website: www.fws.gov/Midwest/endangered/lists/wisc-cty.html. If a Federal species is located within the County of the project area, contact the USFWS Twin Cities Ecological Services Field Office at (952) 252-0092 for further information and guidance.

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Table 1--No/Low Impact List for All Species at All Times of the Year

If your activity or practice is not listed in this table, or does not match the description and additional conditions, request an ER Review.

	Activity	Description	Additional Conditions	Rationale for Additional Conditions
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- 4 Threatened and endangered plants are protected on public land except in the course of forestry or agricultural practices, in the construction, operation, or maintenance of a utility facility, or as part of bulk sampling activities under s. 295.45. (Wis. Stat. 29.604). "Utility" is defined as including the production, transmission, delivery, or furnishing of electrical power, light, heat, water, natural gas, sewer, or telecommunication services.
- 5 Emergency activities are covered by the fact that it is an emergency. An emergency is defined as an actual or imminent threat of significant harm to the environment or to public health or safety for all or a portion of a project. Also includes a customer power or gas outage, or probable equipment failure leading to a customer power or gas outage. If possible, contact the Endangered Resources Review Program at DNRERReview@wisconsin.gov for guidance on these types of projects.

Not for Use

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Table 2--No/Low Impact List by Taxa Group for DNR Staff and ER Certified Reviewers Only

	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
A	General Activities									
2-A1	Any activity performed in urban/residential areas, manicured lawn or other artificial/paved surface	Includes ROW/UC in these land use/land cover types. Access through similar land use type (urban/residential, manicured lawn, or other artificial/paved surface) is included.	See Avoidance Measures doc	✓	See Avoidance Measures doc (for Peregrine EO or if any tree/shrub removal)	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	✓	Erosion control required if within 300' of waterway	✓
2-A2	Any activity performed in agricultural land or areas covered in crushed stone or gravel	Includes ROW/UC in these land use/land cover types. Access through similar land use type (agricultural , crushed stone, gravel) is included.	See Avoidance Measures doc	For OBT and WT see Avoidance Measures doc	See Avoidance Measures doc (if any tree/shrub removal)	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	✓	Erosion control required if within 300' of waterway	✓
2-A3	Any activity with no element occurrences (EOs)	Any activity with no element occurrences (EOs) when searched through NHI with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	✓	✓	✓	✓	✓	✓	✓	✓
2-A4	Any upland activity with only mussel, fish, aquatic insect and/or aquatic plant species present	The activity must be occurring entirely within upland habitat and only Aquatic EOs--mussels, fish, aquatic insects or aquatic plants, are present when searched through the NHI Portal with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	NA	NA	NA	See Avoidance Measures doc	See Avoidance Measures doc	NA	See Avoidance Measures doc	✓
2-A5	Any activity conducted by a KBB HCP partner, with only KBB HPR (may also include KBB EO)	Any activity conducted by a KBB HCP partner, with only the KBB HPR (may also include KBB EOs), when searched through the NHI Portal with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	NA	NA	NA	NA	NA	No review required for KBB--follow HCP	NA	NA
2-A6	Any activity with only Blanchard's Cricket Frog	Any activity with only Blanchard's Cricket Frog records when searched through NHI with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	NA	See Avoidance Measures doc	NA	NA	NA	NA	NA	NA
2-A7	Any activity with all species exempt from needing an ER Review (covered by the no/low) except for the Bald Eagle	Any activity with all species exempt from needing an ER Review except for the Bald Eagle, when searched through NHI with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	NA	NA	Follow FWS eagle guidelines	NA	NA	NA	NA	NA
2-A8	General Administration*	Strategic and operational planning, budget management, rule and policy development, etc.	✓	✓	✓	✓	✓	✓	✓	✓
2-A9	Land Acquisition*	Any type of land acquisition or ownership change including purchases, sales, transfers, leases, easements, etc. Future activities on the land being acquired, sold, etc. may require an ER Review.	✓	✓	✓	✓	✓	✓	✓	✓
2-A10	Project Planning*	Includes wetland delineations, habitat assessments, tree marking and other access by foot. All vehicles and heavy equipment must remain on existing roadways.	✓	✓	✓	✓	✓	✓	✓	✓
2-A11	Fish Hatchery Operations*	Includes all fish production and rearing activities that take place within a fish hatchery.	✓	✓	✓	✓	✓	✓	✓	✓
2-A12	Hand Installation of Rip Rap or Biologs	Installation of rip rap or biologs when placed by hand. Heavy equipment can be used nearby if all materials, vehicles and heavy equipment remain within a roadway, parking lot, routinely mowed area (i.e. mowed 1-3 weeks) or on a boat/barge.	✓	Work must be conducted between May 1 and September 30	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-A13	Rip Rap, Seawall or Wingwall Replacement*	Repair or replacement of existing rip rap, seawalls or wingwalls. All impacts must be within the existing footprint, does not include clearing of vegetation, and work must be conducted from an upland shoreline or barge.	✓	For WT and BCF, must be completed during the active season (5/1 to 9/30). Area must be top dressed or voids must be filled with small diameter gravel.	✓	Implement BMPs (i.e. silt curtain, turbidity barrier)	Implement BMPs (i.e. silt curtain, turbidity barrier)	✓	Implement BMPs (i.e. silt curtain, turbidity barrier)	✓

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Broad Incidental Take Permit/Authorization

Table 2--No/Low Impact List by Taxa Group for DNR Staff and ER Certified Reviewers Only

	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/ Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-A14	Rip rap or wingwall installation	Includes the installation of wingwalls or up to 30 linear feet of rip rap	✓	For WT and BCF, must be completed during the active season (5/1 to 9/30). Area must be top dressed or voids must be filled with small diameter gravel.	See Avoidance Measures doc	Implement BMPs (i.e. silt curtain, turbidity barrier)	Implement BMPs (i.e. silt curtain, turbidity barrier)	✓	Implement BMPs (i.e. silt curtain, turbidity barrier)	See Avoidance Measures doc
2-A15	Building Demolition	Full or partial building demolition.	For bats must instead follow the BITP for Cave Bats.	✓	For structures greater than 5 stories that intersect a peregrine EO, ER Review required	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	✓	Erosion control required if within 300' of waterway	✓
2-A16	Building Repairs*	Exterior and interior repairs to existing buildings, such as window replacement, gutter installation, painting, roof repair, interior renovation, electrical repair, etc.	For bats must instead follow the BITP for Cave Bats.	✓	For structures greater than 5 stories that intersect a peregrine EO, ER Review required	✓	✓	✓	✓	✓
2-A17	Sign Installation*	Includes trail signs, property signs, roadway signs, or similar activities that contain up to 4 posts per sign. Sign installation occurring off-road must be installed by hand or small equipment and ATV. Heavy equipment may be used for sign installation occurring along a roadway if all materials, vehicles and heavy equipment remain within a roadway, parking lot or routinely mowed area (i.e. mowed 1-3 weeks).	✓	✓	✓	✓	✓	✓	✓	✓
2-A18	Stream Crossing - TCSB Placement and Removal*	Placement and removal of temporary clear-span bridge. The activity will not disturb the bank or below OHWM. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	For WT See Avoidance Measures doc	For tree or shrub removal, see Avoidance Measures doc	Erosion control measures required	Erosion control measures required	✓	Erosion control measures required	See Avoidance Measures doc
2-A19	Minor Surface Disturbance/Excavation*	Any ground disturbance or underground excavation done by hand, accessed by foot, ATV or other small 4X4 low ground weight vehicle; and limited in size 25 sq ft or 75 cu ft.	✓	✓	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-A20	Vertical Landfill Expansion*	Includes the vertical expansion of an existing, active landfill within the existing footprint.	✓	✓	✓	✓	✓	✓	✓	✓
2-A21	Continuing operations*	Includes continuing operation of an existing facility with no expansion or change in operations. Typically used for facilities renewing DNR permits related to existing operations (i.e., air or waste permits).	✓	✓	✓	✓	✓	✓	✓	✓
2-A22	Surveying—Boomshocker, Mini-boomshocker, Stream towboat, Backpack electrofishing, Gillnets, Kick sampling and Trapnets*	See Fisheries Management Handbook for definitions. Report rare species, if found.	✓	✓	✓	✓	✓	✓	✓	✓
2-A23	Fish Propagation and Stocking--Egg Collection, Rearing, Stocking*	See Fisheries Management Handbook for definitions.	✓	✓	✓	✓	✓	✓	✓	✓
2-A24	Vegetation monitoring--Floristic Quality Assessments, National Wetland Condition Assessment Surveys, Wetland Identification and Delineation*	Walk-through surveys including non-destructive vegetation sampling, digging up to four soil pits per 0.5 hectare assessment area for soil sampling. Access through hiking, vehicles, canoe or boat. All vehicles must remain on existing roadways.	✓	✓	✓	✓	✓	✓	✓	✓
2-A25	Aquatic plant surveys--Point-intercept aquatic macrophyte surveys and early detection AIS meander surveys*	Includes use of modified rakeheads and net scoops for plant surveys. Report rare species, if found.	✓	✓	✓	✓	✓	✓	✓	✓
2-A26	Archaeological bucket sampling or shovel testing*	Includes the collection of up to 1 cubic foot of soil by hand.	✓	✓	✓	✓	✓	✓	✓	✓

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Table 2--No/Low Impact List by Taxa Group for DNR Staff and ER Certified Reviewers Only

	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/ Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-A27	Floating/Eco Dock*	Floating dock supported by up to four horizontal brackets installed into the bank, on a case-by-case basis as determined by Water Quality permit. Does not include projects with new seawall or other anchoring structures.	✓	✓	✓	✓	✓	✓	✓	✓
2-A28	Small Personal Piers/Single Piling/Pile Clusters*	On a case-by-case basis as determined by Water Quality permit.	✓	✓	✓	✓	Must follow most current guidance for mussel relocation prior to start of project.	✓	✓	✓
2-A29	Pesticide applications on maintained landscapes*	Examples include applications on nurseries, golf courses (maintained areas only), fish hatcheries and beam guards. Drift must be controlled to avoid impacts to unmaintained areas.	✓	For beam guards/WT see Avoidance Measures doc	✓	✓	✓	✓	✓	✓
2-A30	Burn barrels*	Includes the burning of only dry, nonrecyclable paper or cardboard and untreated or non-painted wood products. Follow burn barrel guidelines.	✓	✓	✓	✓	✓	✓	✓	✓
2-A31	Mowing of woody vegetation, equipment used may include ATV, tractor, skid steer or 4X4 (upland)	Includes mowing of woody vegetation between November 1 and March 14, using existing access routes.	✓	✓	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-A32	Mowing of woody vegetation, equipment used may include ATV, tractor, skid steer or 4X4 (wetland)	Includes mowing of woody vegetation between November 1 and March 14, using existing access routes.	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-A33	Vegetation management (spot herbiciding - wetland)	Spot application of herbicide, using existing access routes.	✓	✓	✓	Only herbicides approved for aquatic and wetland environments.	Only herbicides approved for aquatic and wetland environments.	See Avoidance Measures doc	Only herbicides approved for aquatic and wetland environments. ER Review required for dragonflies and damselflies.	See Avoidance Measures doc
2-A34	Vegetation management (spot herbiciding - upland)	Spot application of herbicide, using existing access routes.	✓	✓	✓	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-A35	Target-specific pesticide use (uplands)	Includes frill girdle and basal bark applications, cut stump treatments, tree and soil injections (including the use of injection axes), spot treatment and species-specific treatments (i.e. sp. specific pheromone, sp. specific viral insecticides)	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-A36	Target-specific pesticide use-Phragmites	Includes cut-stem, spot spray application via backpack sprayer, and hand-wicking applications. Also see definition for spot-herbiciding.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	Only herbicides approved for aquatic and wetland environments. ER Review required for dragonflies and damselflies.	Wicking should occur when phragmites exceed height of desirable native species. Also See Note 1.
2-A37	Access (manicured ROW/UC and agricultural)	Access to ROW/UC work segment(s) or project area. For clearing or grading, see Activities 2-A31 through 2-A34, 2-B13 and 2-B14.	✓	✓	✓	✓	✓	✓	✓	See Avoidance Measures doc

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	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-A38	Access (upland)	Access to ROW/UC work segment(s) or project area. For clearing or grading, see Activities 2-A31 through 2-A34, 2-B13 and 2-B14.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	If less than 2,500 linear feet, see Avoidance Measures doc. Otherwise, ER Review required.	✓	See Avoidance Measures doc
2-A39	Access (wetland)	Access to ROW/UC work segment(s) or project area. Requires either frozen ground conditions, placement of construction matting (see Activity 2-A41), or use of a low-pressure, tracked vehicle. For clearing or grading, see Activities 2-A31 through 2-A34, 2-B13 and 2-B14.	✓	ER Review not required for SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	If less than 2,500 linear feet, see Avoidance Measures doc. Otherwise, ER Review required.	ER Review required for dragonflies and damselflies	See Avoidance Measures doc
2-A40	Placement and removal of construction matting (upland)	For access, staging areas and other preproject -related activities, limited to one year in-place. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	ER Review required	✓	See Avoidance Measures doc
2-A41	Placement and removal of construction matting (wetlands)	For access, staging areas and other project-related activities, limited to one year in-place. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	ER Review not required for SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	ER Review required	ER Review required for dragonflies and damselflies	See Avoidance Measures doc
2-A42	Minor restoration associated with project cleanup	To restore minor surface disturbances that can be accessed or completed on foot with ATV or other small 4X4 low ground weight vehicle. Includes reseeding, raking, removal of erosion control devices (i.e. silt fence, etc.) and site cleanup. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	See Avoidance Measures doc	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-A43	Barge crossing	Includes access points, prop wash effects and barge spudding.	✓	✓	✓	ER Review required	ER Review required	✓	ER Review required	✓
2-A44	Soil borings for soil sampling, monitoring well or water supply well installation, exploratory, geotechnical or other purpose (upland and wetland)	May include selective cutting or brushing. For Access see Activities 2-A37 and 2-A39.	ER Review required for bat hibernacula, if project intersects with EO	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	If less than 400 square feet, see Avoidance Measures doc. Otherwise, ER Review required.	✓	ER Review Required if protected, see Note 1.
B	Utility Activities									
2-B1	Utility pole replacement or removal (upland)	Includes all activities needed for pole replacement. Replacement within 50 feet of the base of the existing structure and/or within 50 feet of the existing centerline is included. Access through a similar land use type (urban/residential) is included. No new ROW or UC is allowed. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	ER Review required	✓	See Avoidance Measures doc
2-B2	Utility pole replacement or removal (wetland)	See description of Activity 2-B1. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	Implement BMPs	Implement BMPs	ER Review required	ER Review required for dragonflies and damselflies. Implement BMPs, no creosote or other toxic materials in any part of the structure or foundation.	See Avoidance Measures doc

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	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/ Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-B3	Bore pit or other minor excavation (upland)	May be completed by hand, back-hoe or trencher. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	ER Review required for bat hibernacula, if project intersects with EO	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	ER Review required	✓	See Avoidance Measures doc
2-B4	Bore pit or other minor excavation (wetland)	See description of Activity 2-B3. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	ER Review required for bat hibernacula, if project intersects with EO	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	Implement BMPs	Implement BMPs	ER Review required	ER Review required for dragonflies and damselflies. Implement BMPs.	See Avoidance Measures doc
2-B5	Install, replace or maintain small aboveground facilities including new single pole installations (upland)	Includes installation, replacement or maintenance of small above ground facilities (e.g., transformers, pedestals, switch fuse boxes, single pole installations, hand holes, pumping or valve stations, huts, etc.). Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	If less than 800 square feet, see Avoidance Measures doc. Otherwise, ER Review required.	✓	See Avoidance Measures doc
2-B6	Install, replace or maintain small aboveground facilities including new single pole installations (wetland)	See description of Activity 2-B5. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	Implement BMPs	Implement BMPs	If less than 800 square feet, see Avoidance Measures doc. Otherwise, ER Review required.	ER Review required for dragonflies and damselflies. Implement BMPs.	ER Review Required if protected, see Note 1.
2-B7	Various types of plowing or trenching with a width up to 12 inches (upland)	Involves the underground installation of utility and communications cable and conduit. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	If less than 2,500 linear feet, see Avoidance Measures doc. Otherwise, ER Review required.	✓	See Avoidance Measures doc
2-B8	Various types of plowing or trenching with a width up to 12 inches (wetland)	See description of Activity 2-B7. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	ER Review not required for SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	Implement BMPs	Implement BMPs	If less than 2,500 linear feet, see Avoidance Measures doc. Otherwise, ER Review required.	✓	See Avoidance Measures doc
2-B9	Rock sawing	Involves the direct underground installation of utility and communications cable and conduit through rock using specialized equipment. Does not include access, which is a separate activity, see Activities 2-A37 to 2-A39.	✓	If not exposed rock, see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	If not exposed rock, see Avoidance Measures doc.
2-B10	Horizontal/Directional Drilling (depth >36")*	Also see bore pits, which must be addressed separately. For stream/wetland/waterway crossings, must have Emergency Action Plan in place which conforms to DNR standards, http://dnr.wi.gov/topic/Dams/documentsEAP.html . Work conducted from bank, no equipment in streambed. Access is not included, see Activities 2-A37 to 2-A39.	ER Review required for bat hibernacula, if project intersects with EO	✓	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-B11	Horizontal/Directional Drilling (depth 36" or less)	See description of Activity 2-B10.	✓	See Avoidance Measures doc	✓	✓	✓	✓	✓	See Avoidance Measures doc

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2-B12	Vegetation management for access and existing UC maintenance (selective clearing)*	Hand-operated equipment (hedge trimmer, weed eater, chainsaw, etc.) Access through existing manicured ROW/UC is included.	See Avoidance Measures doc	✓	See Avoidance Measures doc	✓	✓	✓	✓	See Avoidance Measures doc
2-B13	Vegetation management (upland)	Includes utility vegetation management activities within existing road ROW/UC conducted between November 1st and March 14th. Access through existing manicured ROW/UC is included.	See Avoidance Measures doc	✓	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-B14	Vegetation management (wetland)	Includes utility vegetation management activities within existing road ROW/UC conducted between November 1st and March 14th. Access through existing manicured ROW/UC is included.	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	Only herbicides approved for aquatic and wetland environments.	Only herbicides approved for aquatic and wetland environments.	See Avoidance Measures doc	Only herbicides approved for aquatic and wetland environments. ER Review required for dragonflies and damselflies.	See Avoidance Measures doc
2-B15	Pulling or blowing utility lines or communication cable with duct already installed*	Ductwork has already been installed and cable, fiberoptic, gas or electric lines are pushed through with air created by pumps or pulled through by hand. Machines or equipment are relatively small requiring 1-3 people. Access is not included, see Activities 2-A37 to 2-A39.	✓	✓	✓	✓	✓	✓	✓	✓
2-B16	Install, maintain or replace pole anchors, guy wires or ground rods.	Typically up to 20 structures within 20 miles segment. Up to 14" diameter screw auger embedded up to 40' in depth with a cap at the ground level with the rod attached to it, or ground rods up to 40' in depth using a standard line vehicle or track vehicle. Typically up to four anchors may be placed up to 50 feet away; or up to 8 ground rods may be placed up to 20 feet from the base of the structure. May consist of only replacing the guy-wire. Access through existing manicured ROW/UC is included.	ER Review required for bat hibernacula, if project intersects with EO	✓	If outside of urban/residential, see Avoidance Measures doc	✓	✓	✓	✓	See Avoidance Measures doc
2-B17	Stringing new OH conduit in manicured ROW/UC	Maintenance activity for existing overhead line. Access through existing manicured ROW/UC is included.	✓	For OBT, see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	✓	✓	See Avoidance Measures doc
2-B18	Spanning waterways with overhead lines*	Involves two trucks on either side of the waterway and a boat in the waterway to assist in installation.	✓	✓	✓	✓	✓	✓	✓	✓
2-B19	Pipeline maintenance activities (pasture)	The purpose of a maintenance dig is to inspect and, if necessary, repair the pipeline. Includes site grading, clearing and restoration activities. Access is not included, see Activities 2-A37 to 2-A39.	ER Review required for bat hibernacula, if project intersects with EO	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-B20	Aboveground inspections, annual inspections, surveys, minor maintenance and repair.	On foot, ATV, Argo, Bombardier ATV (<8X8), bucket truck or equivalent vehicles, may include selective cutting by hand for visibility or access. Access through existing manicured ROW/UC is included.	✓	In not on foot, for OBT, see Avoidance Measures doc	For selective cutting, see Avoidance Measures doc	✓	✓	✓	✓	See Avoidance Measures doc
Utility Activities--Telecommunication Facilities										
2-B21	Communication Tower/Non-Tower Structures Collocations/Repairs*	Collocation to or repairs on an existing tower/building/water tower/other non-tower structure, with no structure height increase and no expansion outside of the existing compound.	✓	✓	For buildings 5 stories or greater, for Peregrine Falcons, see Bird Avoidance Measures doc	✓	✓	✓	✓	✓
2-B22	New Cell Tower Construction (see habitat types in Description)*	Tower construction (including all associated disturbance, below ground excavation, material storage, access routes, etc.) that is occurring entirely within agricultural land , manicured/mowed lawn or pavement. For additional recommendations, see Bird Avoidance Measures document.	✓	For OBT and WT see Avoidance Measures doc	✓	✓	✓	✓	✓	✓

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C	Transportation Activities									
2-C1	Bridges--Repave Existing Structure*	Paving of existing bridge structure and approaches. All materials must be contained, none dropped in water.	For bats, follow the BITP for Cave Bats.	✓	✓	✓	✓	✓	✓	✓
2-C2	Culvert maintenance and removal	Activities may include: removal of debris from one or both ends of existing culvert, adding additional length to existing culverts on one or both ends, removal of existing culvert with no replacement, or installation of culvert lining. Follow conditions outlined in initial comment letter, final concurrence and/or other correspondence with DNR transportation liaisons. Disturbance must be kept to a minimum and completed in 1-2 days.	✓	ER Review not required for OBT or SGL, for other herp species, see Avoidance Measures doc	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	See Avoidance Measures doc	See Avoidance Measures doc
2-C3	Culvert replacement, previously permitted or up to 24" in diameter	Replacement of existing, previously permitted culvert with same or similarly sized culvert, type may change or replacement of existing culvert, not to exceed 24 inches in diameter, span or width. Follow conditions outlined in initial comment letter, final concurrence and/or other correspondence with DNR transportation liaisons.	✓	ER Review not required for OBT or SGL, for other herp species, see Avoidance Measures doc	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	See Avoidance Measures doc	See Avoidance Measures doc
2-C4	Fence/Beam Guard Installation*	Includes roadway fencing, beam guards, and similar structures along roadways. Heavy equipment may be used for fence installation occurring along a roadway if all material, vehicles and heavy equipment remain within a roadway, parking lot or routinely mowed area (i.e. mowed 1-3 weeks).	✓	For WT and OBT see Avoidance Measures doc	✓	✓	✓	✓	✓	✓
2-C5	Safety Mowing /Maintenance in Clear Zone	Safety mowing or maintenance required to maintain the clear zone along roadways. For areas beyond the clear zone, see Activity 2-A31 and 2-A32.	✓	See Avoidance Measures doc	✓	✓	✓	ER Review Required	✓	See Avoidance Measures doc
2-C6	Bridge Maintenance	Sand blasting, priming, painting or equivalent activities on bridge structures. Enclosed work area around/under bridge, asbestos restrictions when applicable.	For bats, follow the BITP for Cave Bats.	✓	TOY restriction for swallows.	✓	✓	✓	✓	✓
2-C7	Existing Access Road/Trail Maintenance	Includes the removal of fallen trees and routine mowing of maintained access roads, parking lots or trails through the use of hand-held equipment, push mowers or riding lawn mowers.	✓	Maintain a minimum blade height of 150 mm from May 20th through September 18th. Follow invasive species restrictions when applicable.	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-C8	Existing Trail--Bridge Replacement*	Replacement of existing bridge by hand using similar materials and within existing footprint.	✓	✓	✓	✓	✓	✓	✓	✓
2-C9	Primitive Trail Development (agricultural, manicured/mowed areas , existing fire roads or existing social use trails)*	Includes hand installation of Primitive Trail . Applies to the following habitat/land use types: agricultural, manicured/mowed areas, existing fire roads or existing social use trails.	✓	✓	✓	✓	✓	✓	✓	✓
2-C10	Primitive Trail Development (upland)	Includes hand installation of primitive trail or boardwalk. See Definitions for description of Primitive Trail.	✓	✓	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-C11	Primitive Trail Development (wetland)	Includes hand installation of primitive trail or boardwalk. See Definitions for description of Primitive Trail.	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	ER Review required for dragonflies and damselflies .	See Avoidance Measures doc

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2-C12	Existing trail-Resurfacing	Resurfacing of existing trail using similar materials and within existing footprint, does not include asphalt trails. For gravel trails, see Activity 2-A2.	✓	For Wood Turtle, see Herps Avoidance Measures doc	See Avoidance Measures doc	✓	✓	✓	✓	✓
2-C13	Placement of erosion control matting*	Placement of erosion control matting within the footprint of existing social use trails	✓	✓	✓	✓	✓	✓	✓	✓
2-C14	Installation of Positive Train Control (PTC) Monopoles*	Monopole construction (including all associated disturbance, below ground excavation, material storage, access routes, etc.) that is occurring entirely within previously disturbed railroad right-of-way. Tower must be equal to or less than 100 feet above ground level, unguyed and unlit.	✓	✓	✓	✓	✓	✓	✓	✓
D	Waterways GP Activities									
2-D1	Bridge - Clear span over streams*	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	✓	✓	✓	ER Review required for dragonflies and damselflies	See Avoidance Measures doc
2-D2	Dredging - Invasive or non-native species management (dry lakebed)	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-D3	Dredging - Removal of plant or animal nuisance deposits	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	✓	✓	✓	See Avoidance Measures doc
2-D4	Dry Fire Hydrant	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D5	Great Lakes - Net Pens	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-D6	Great Lakes - Net Pens Add. Sites	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	✓	✓	✓	✓	See Avoidance Measures doc
2-D7	Habitat Fish half log	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D8	Habitat Fish sticks (lakes/flowages only)*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	✓	✓	✓	See Avoidance Measures doc
2-D9	Habitat Fish sticks, add. Sites (lakes/flowages only)*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	✓	✓	✓	See Avoidance Measures doc
2-D10	Habitat Fish spawning reef	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D11	Habitat Fish tree drop (lake/flowage only)*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	✓	✓	✓	See Avoidance Measures doc
2-D12	Habitat Fish wing deflector	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D13	Habitat Wildlife nesting structure*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	✓	✓	✓	See Avoidance Measures doc
2-D14	Lake shore erosion control Biological	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	An ER Review is not required if all work is above OHWM	✓	No ER Review required if all work is above OHWM	See Note 1, if any part of the bank or surrounding native vegetation will be removed, then an ER Review is required.
2-D15	Lake shore erosion control Riprap repair*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, if any part of the bank or surrounding native vegetation will be removed, then an ER Review is required.

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Table 2--No/Low Impact List by Taxa Group for DNR Staff and ER Certified Reviewers Only

	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/ Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-D16	Lake shore erosion control Riprap replacement*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, if any part of the bank or surrounding native vegetation will be removed, then an ER Review is required.
2-D17	Lake shore erosion control – Seawall replaced with riprap*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, if any part of the bank or surrounding native vegetation will be removed, then an ER Review is required.
2-D18	Pea gravel blanket	See GP Application Checklist.	✓	ER Review required for wood turtle	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D19	Pilings	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-D20	Pond – Landscape*	See GP Application Checklist.	If tree removal, ER Review required	✓	See Avoidance Measures doc	✓	✓	No ER Review required in ag or maintained habitats	✓	See Avoidance Measures doc
2-D21	Pond – Stormwater*	See GP Application Checklist.	If tree removal, ER Review required	✓	See Avoidance Measures doc	✓	✓	No ER Review required in ag or maintained habitats	✓	See Avoidance Measures doc
2-D22	Pond - Wildlife pond	See GP Application Checklist.	If tree removal, ER Review required	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	No ER Review required in ag or maintained habitats	✓	See Avoidance Measures doc
2-D23	Repair or replacement of intake or outfall structure*	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	✓	✓	✓	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed
2-D24	Stream bank repair of riprap (placed prior to August 1, 2007)*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	✓	✓	✓	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed
2-D25	Stream bank erosion control - Replacement of structure with bio-stabilization*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	No ER Review required if all work is above OHWM	✓	No ER Review required if all work is above OHWM	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed
2-D26	Stream bank erosion control - Replacement with integrated bank treatment*	See GP Application Checklist.	✓	✓	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed

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	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-D27	Stream bank erosion control - Bio-stabilization	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed
2-D28	Stream bank erosion control – Integrated bank protection	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Note 1, review required if any part of the bank or surrounding native vegetation will be removed
2-D29	Weed Rake	See GP Application Checklist.	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc	ER Review required	✓	ER Review required	ER Review required
E	NRCS Activities									
2-E1	Any activity with no element occurrences (EOs).	Any activity with no element occurrences (EOs) when searched through NHI with standard 1-mile (terrestrial and wetland species) and 2-mile (aquatic species) buffers.	✓	✓	✓	✓	✓	✓	✓	✓
2-E2	All NRCS activities from Table 1 on Pasture and Upland habitat types (aside from those listed below, which have additional limitations and/or require an ER Review)*	See Table 1	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E3	Access Road (Pasture, Upland, Wetland)*	See Activities 2-A37 through 2-A39								
2-E4	Early Successional Habitat Development & Management (cropland, farmstead, pasture, upland)*	NRCS Conservation Practice Standard - Code #647, Only for shearing performed on frozen ground.	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E5	Firebreak (pasture, upland)*	NRCS Conservation Practice Standard - Code # 394, Includes establishment of vegetated firebreaks only.	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E6	Grade Stabilization Structure*	NRCS Conservation Practice Standard - Code # 410--Practice is not no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E7	Herbaceous Weed Control (pasture, upland)*	NRCS Conservation Practice Standard - Code # 315 (Includes mechanical, chemical or biological treatment methods, also see Prescribed Grazing #528, below)	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E8	Integrated Pest Management*	NRCS Conservation Practice Standard - Code # 595--Practice is not no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E9	Stormwater Runoff Control*	NRCS Conservation Practice Standard - Code # 570--Practice is not no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E10	Subsurface Drain (pasture, upland)*	NRCS Conservation Practice Standard - Code # 606, ER Review required for outlets draining to streams, channels or lakes	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E11	Trails and Walkways*	NRCS Conservation Practice Standard - Code # 568--Practice is not no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E12	Tree/Shrub Establishment*	NRCS Conservation Practice Standard - Code # 612 (for previously prepared sites, includes planting only, also see Tree and Shrub Site Preparation #490, below)	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E13	Tree/Shrub Site Preparation*	NRCS Conservation Practice Standard - Code # 490--Practice is not no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E14	Underground Outlet (pasture, upland)*	NRCS Conservation Practice Standard - Code # 620, ER Review required for outlets draining to streams, channels or lakes	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
2-E15	Upland Wildlife Habitat Management (pasture, upland)*	NRCS Conservation Practice Standard - Code # 645 (Includes creation of food plots, planting warm or cool season grasses or legumes, forbs, trees, or other woody vegetation. For other practices, see related codes listed above.)	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc

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	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/ Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-E16	Water and Sediment Control Basin*	NRCS Conservation Practice Standard - Code # 638--Practice is not covered by the no/low outside of cropland and farmstead, requires ER Review in other habitat types	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required	ER Review required
2-E17	Wetland Wildlife Habitat Management*	NRCS Conservation Practice Standard - Code # 644, Only applies to wood duck boxes and wild rice seeding.	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc
E	NRCS Activities on Federal Easement Lands (2-E18 through 2-E48)									
2-E18	Animal Trails and Walkways (upland)	NRCS Conservation Practice Standard - Code # 575	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E19	Animal Trails and Walkways (over water)	NRCS Conservation Practice Standard - Code # 575	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	ER Review required for dragonflies and damselflies	See Avoidance Measures doc
2-E20	Brush Management (upland)	NRCS Conservation Practice Standard - Code # 314	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E21	Brush Management (within waterways)	NRCS Conservation Practice Standard - Code # 314	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	ER Review required	✓	ER Review required	See Avoidance Measures doc
2-E22	Conservation Cover	NRCS Conservation Practice Standard - Code # 327	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E23	Critical Area Planting (upland)	NRCS Conservation Practice Standard - Code # 342	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E24	Critical Area Planting (stream and channel banks, shorelines)	NRCS Conservation Practice Standard - Code # 342	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	ER Review required for dragonflies and damselflies	See Avoidance Measures doc
2-E25	Early Successional Habitat Development/Management	NRCS Conservation Practice Standard - Code # 647 (Includes selected herbicide techniques, light disking and mowing. Excludes prescribed burning and prescribed grazing, see Prescribed Burning #338 and Prescribed Grazing #528, below)	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E26	Fence	NRCS Conservation Practice Standard - Code # 382	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E27	Firebreaks	NRCS Conservation Practice Standard - Code # 394	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E28	Forage and Biomass Planting	NRCS Conservation Practice Standard - Code # 512	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E29	Forage Harvest Management	NRCS Conservation Practice Standard - Code # 511	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E30	Forest Stand Improvement	NRCS Conservation Practice Standard - Code # 666	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E31	Herbaceous Weed Control	NRCS Conservation Practice Standard - Code # 315 (Includes mechanical, chemical or biological treatment methods, also see Prescribed Grazing #528, below)	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Avoidance Measures doc	✓	See Avoidance Measures doc
2-E32	Livestock Pipeline	NRCS Conservation Practice Standard - Code # 516	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	In wetlands, ER Review required for dragonflies and damselflies. Erosion control required if within 300' of waterway	See Avoidance Measures doc

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	Activity	Description	Taxa - Mammals	Taxa - Herps	Taxa - Birds	Taxa - Fish	Taxa - Mussels	Taxa - Terrestrial/Wetland Inverts	Taxa - Aquatic Insects	Taxa - Plants ¹
2-E33	Prescribed Burning	NRCS Conservation Practice Standard - Code # 338	✓	See Avoidance Measures doc	See Grassland and Savanna Protocols	✓	✓	See Grassland and Savanna Protocols	✓	See Note 1 and Grassland and Savanna Protocols
2-E34	Prescribed Grazing (Managed Grazing - Wisconsin)	NRCS Conservation Practice Standard - Code # 528	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	See Grassland and Savanna Protocols	✓	See Avoidance Measures doc
2-E35	Restoration and Management of Rare and Declining Habitat	NRCS Conservation Practice Standard - Code # 643 (See the following practices: Prescribed Burning #338, Prescribed Grazing #528, Critical Area Planting #342, Brush Management #314, Herbaceous Weed Control #315, Forest Stand Improvement #666)	NA	NA	NA	NA	NA	NA	NA	NA
2-E36	Riparian Forest Buffer	NRCS Conservation Practice Standard - Code # 391 (Includes planting of trees and/or shrubs only, for related practices see Prescribed Grazing #528, Herbaceous Weed Control #315, Forest Stand Improvement #666)	✓	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	✓	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E37	Riparian Herbaceous Cover	NRCS Conservation Practice Standard - Code # 390	✓	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	ER Review required.	ER Review required.	See Avoidance Measures doc
2-E38	Shallow Water Development and Management	NRCS Conservation Practice Standard - Code # 646	✓	See Avoidance Measures doc	See Avoidance Measures doc	✓	✓	ER Review required.	✓	See Avoidance Measures doc
2-E39	Streambank and Shoreline Protection	NRCS Conservation Practice Standard - Code # 580	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	ER Review required.	ER Review required.	See Avoidance Measures doc
2-E40	Stream Habitat Improvement and Management	NRCS Conservation Practice Standard - Code # 395	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	ER Review required.	ER Review required.	ER Review required.	See Avoidance Measures doc
2-E41	Structure for Water Control	NRCS Conservation Practice Standard - Code # 390	✓	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	See Avoidance Measures doc	✓	ER Review required.	See Avoidance Measures doc
2-E42	Tree and Shrub Establishment	NRCS Conservation Practice Standard - Code # 612 (for previously prepared sites, includes planting only, also see Tree and Shrub Site Preparation #490, below)	✓	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E43	Tree and Shrub Site Preparation	NRCS Conservation Practice Standard - Code # 490 (Where applicable, see the following practices: Prescribed Burning #338, Brush Management #314, Herbaceous Weed Control #315)	See Avoidance Measures document	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E44	Upland Wildlife Habitat Management	NRCS Conservation Practice Standard - Code # 645 (Includes creation of food plots, planting warm or cool season grasses or legumes, forbs, trees, or other woody vegetation. For other practices, see related codes listed above.)	✓	See Avoidance Measures doc	See Avoidance Measures doc	Erosion control required if within 300' of waterway	Erosion control required if within 300' of waterway	See Avoidance Measures doc	Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E45	Wetland Creation	NRCS Conservation Practice Standard - Code # 658	✓	See Avoidance Measures doc	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc

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2-E46	Wetland Enhancement	NRCS Conservation Practice Standard - Code # 659	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E47	Wetland Restoration	NRCS Conservation Practice Standard - Code # 657	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc
2-E48	Wetland Wildlife Habitat Management	NRCS Conservation Practice Standard - Code # 644	✓	ER Review not required for OBT and SGL, for other herps see Avoidance Measures doc	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc	ER Review required, if impacting water levels in natural waterbodies. Erosion control required if within 300' of waterway	See Avoidance Measures doc

Notes:

- Threatened and endangered plants are protected on public land except in the course of forestry or agricultural practices, in the construction, operation, or maintenance of a utility facility, or as part of bulk sampling activities under s. 295.45. (Wis. Stat. 29.604). "Utility" is defined as including the production, transmission, delivery, or furnishing of electrical power, light, heat, water, natural gas, sewer, or telecommunication services. If your activity is not exempt, see the Plant Avoidance Measures document.
 - Table 2 offers limited screening for Federally-listed species. If a Federal species comes up in the NHI Portal search, and the project has a Federal nexus (Federal funding, Federal lands or a Federal permit), contact the USFWS Twin Cities Ecological Services Field Office at (952) 252-0092 for further information and guidance.
 - A checkmark signifies that all species within this Taxa group are covered for the corresponding activity and an ER Review is not required. Although Incidental Take does not apply to Special Concern species, a checkmark also indicates that an ER Review is not necessary for SC species within these Taxa groups.
 - Although Incidental Take does not apply to special concern species, an ER Review is recommended if the project is in upland or wetland habitat and "See avoidance measures document" is listed in the Taxa column of the special concern species.
 - Although Incidental Take does not apply to natural communities or natural features, an ER Review is recommended if the project intersects a natural community or other natural feature.
 - Broad Incidental Take Permit for Cave Bats--<http://dnr.wi.gov/topic/ERReview/ItBats.html>.
 - Emergency activities are covered by the fact that it is an emergency. An emergency is defined as an actual or imminent threat of significant harm to the environment or to public health or safety for all or a portion of a project. Also includes a customer power or gas outage, or probable equipment failure leading to a customer power or gas outage. If possible, contact the Endangered Resources Review Program, at DNRERReview@wisconsin.gov, for guidance on these types of projects.
 - Dates for herp active periods can be found at: <http://wiatri.net/er/nhitraining/docs/HerpCalendar.pdf>, with updates based on the current year's weather conditions provided here: <http://dnr.wi.gov/topic/WildlifeHabitat/Herps.asp#regs>.
OBT: Ornate Box Turtle
ROW: Right-of-Way
SGL: Slender Glass Lizard
UC: Utility Corridor
WT: Wood Turtle
- * This activity is also included in Table 1.

Appendix A

Avoidance Measures by Taxa Group—Aquatic Insects

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Aquatic Insects in association with the Broad Incidental Take Permit/Authorization for No and Low Impact in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures, contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Please note, the below avoidance measures are required for aquatic insects listed as Threatened or Endangered and recommended for aquatic insects listed as Special Concern.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

1. Is the project at least 300' away from a waterway?

YES. Avoidance measures are met for aquatic insects. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 2.

2. Is the project within 300' of a waterway, but will not be impacting the streambed or streambank?

YES. Erosion control is required. With appropriate erosion control measures in place the project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

Also known as erosion control blankets, erosion mats or erosion mesh netting, used to prevent erosion during the establishment of vegetation can have detrimental effects on local snake and other wildlife populations. Plastic netting without independent movement of strands can easily entrap animals moving through the area, leading to dehydration, desiccation, and eventually mortality. Netting that contains biodegradable thread with the “leno” or “gauze” weave (contains strands that are able to move

Appendix A

Avoidance Measures by Taxa Group—Aquatic Insects

independently) appears to have the least impact on animals and should be used in areas adjacent to or near any waterbody. (e.g.). Avoid the use of fine mesh matting that is tied or bonded at the mesh intersections such that the openings in the mesh are fixed in size.

Use the following matting (or something similar): American Excelsior “FibreNet” or “NetFree” products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN or C125BN; Western Excelsior “All Natural” products or DOT Class I Type A Urban, Class I Type B Urban, or Class II Type C.

NO (the streambed or streambank will be impacted). An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

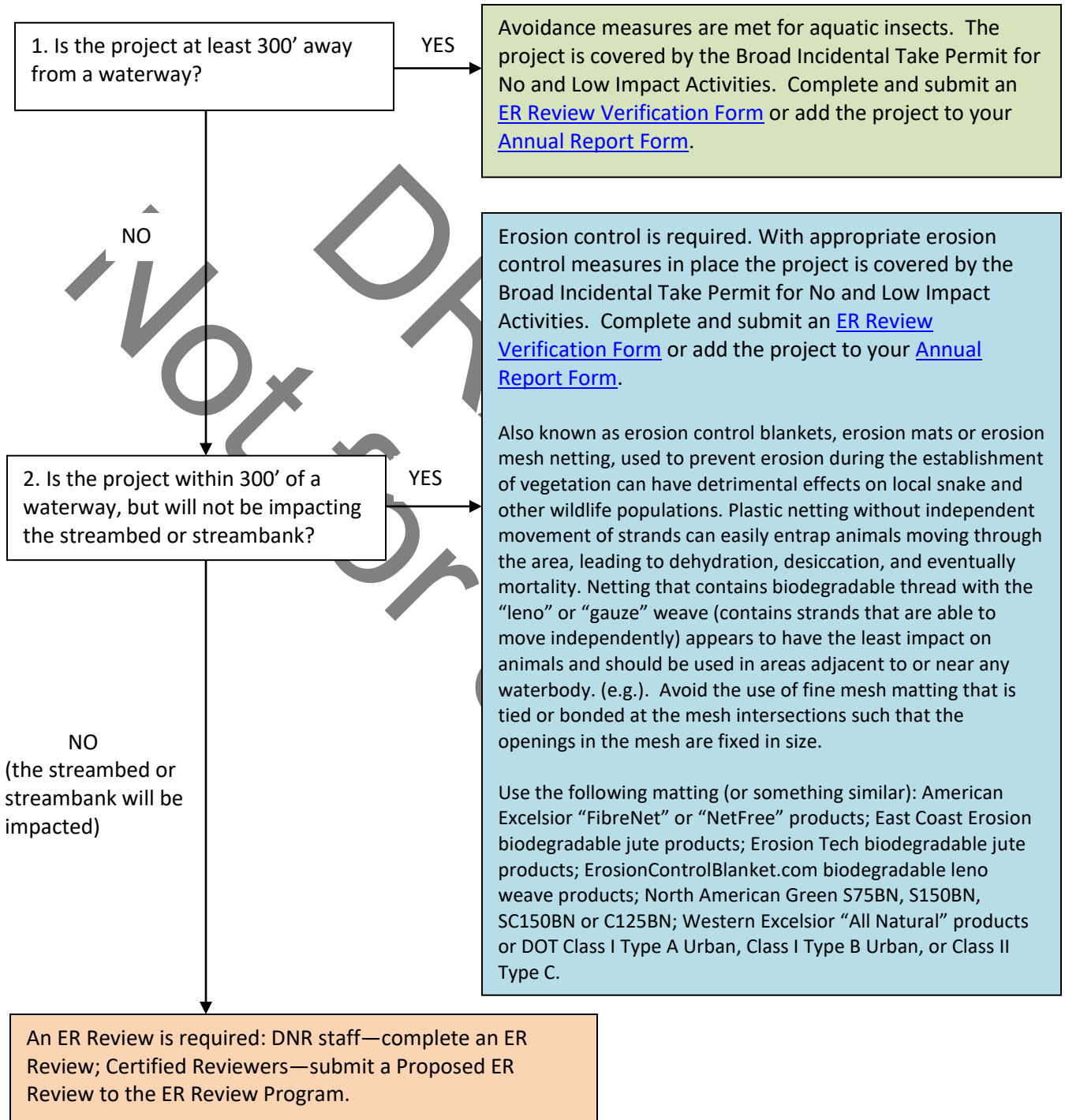
Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](mailto:EndangeredResourcesReviewStaff@dnr.wisconsin.gov) at DNREReview@wisconsin.gov.

Appendix A

Avoidance Measures by Taxa Group—Aquatic Insects

Taxa Group—Aquatic insects, Avoidance Measures Flow Chart



Appendix B

Avoidance Measures by Taxa Group—Birds

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Birds in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Please note, the avoidance periods and buffer distances referenced below are required for birds listed as Threatened or Endangered and recommended for birds listed as Special Concern.

For the following bird species refer to the [Grassland and Savanna Protocols](#) for potential additional requirements: Bell's Vireo, Greater Prairie Chicken, Henslow's Sparrow, Kirtland's Warbler, Loggerhead Shrike, Upland Sandpiper, and Yellow Rail.

For projects that intersect a bald eagle record, visit the USFWS Bald Eagle Management website (<http://www.fws.gov/midwest/MidwestBird/EaglePermits/baeatake/step1.html>) to determine specific guidelines and conservation measures for your specific project activity.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

- 1. Is the project occurring outside of the avoidance period for the specific bird species encountered? For Kirtland's Warbler and Piping Plover proceed directly to Question 2.**

Refer to the [Wisconsin Bird Nesting Dates for Species Tracked by the Natural Heritage Inventory](#) to determine the dates for the particular bird species encountered.

YES. Avoidance measures are met for birds. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 2.

Appendix B
Avoidance Measures by Taxa Group—Birds

2. Does the project site overlap the specific bird species EO, or is it within 300' of suitable habitat (1,320 feet for Kirtland's Warbler), based on the species overview paragraph or the species guidance document, available through the DNR's [biodiversity pages](#)? (300', or 1,320', is the buffer distance that may cause nest abandonment)

YES. Go to question 3.

NO. If the project does not overlap a nest site or is not within 300' of suitable habitat (or 1,320' of Kirtland's Warbler), the project will likely not impact the specific bird species. Avoidance measures are met. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

3. Is the only bird species with suitable habitat a peregrine falcon and is the project occurring at ground level?

YES. Peregrine falcon nest boxes are not impacted by activities occurring at ground level. Avoidance measures are met. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](#) at DNREReview@wisconsin.gov.

Note the following recommendations for cell tower projects:

The construction of large, guyed telecommunication and broadcasting towers creates a significant impact on migratory birds, which are protected by the federal Migratory Bird Treaty Act. Research indicates that the following factors influence bird mortality:

- Tower height: Towers that fall within the normal zone of nocturnal bird migration due to their structural height and/or placement on elevated topography are believed to cause the greatest mortality. Avian mortality increases with tower height over 200 feet.
- Guy wires: Most bird mortality at guyed towers occurs when the birds collide with the guy wires and not the tower itself. The studies that have compared guyed to freestanding towers have shown dramatically higher rates of mortality at guyed towers.
- Lighting: The lighting scheme at towers is probably the single most important factor contributing to bird kills at towers that we can control. Recent scientific research has determined that migrating birds are most susceptible to collisions with towers where there are steady burning red lights (also known as L-810 lights). In December 2015, the Federal Aviation Administration (FAA) adopted new standards for Obstruction Marking

Appendix B

Avoidance Measures by Taxa Group—Birds

and Lighting found here:

http://www.faa.gov/documentLibrary/media/Advisory_Circular/AC_70_7460-1L_.pdf.

For more information please see: Toolkit for Tower Operators and Engineers (<http://fewerlights.anr.msu.edu/toolkit-for-operators-and-engineers.html>). The manufacturer of your specific tower lights can be contacted for information on alterations.

- Other factors such as topography of landscape should be considered. Constructing a tower on a hill will put the tower within the normal bird migration zone and may result in a higher risk of mortality.
- Studies provide evidence that placement of communication towers along ridgelines may result in higher bird mortality than at other locations. Birds can be killed at a tower whenever large numbers are flying near or at the same elevation as the tower. This can occur because the tower is tall or because it is placed topographically where birds are concentrated close to the ground. At ridgeline locations, inclement weather is not required for concentrations of birds to be found at low elevation.
- Tower designs using guy wires for support which are proposed to be located in known raptor or waterbird concentration areas or daily movement routes, or in major diurnal migratory bird movement routes or stopover sites, should have daytime visual markers on the wires to prevent collisions by these diurnally moving species.

In addition to the above, to reduce the risk of towers to migratory birds, all newly constructed towers should conform to the USFWS Guidelines on Communications Tower Siting, Construction, Operation and Decommissioning (<http://www.fws.gov/midwest/Endangered/section7/telecomguidance.html>). More recommendations on cell tower construction can be found on the American Bird Conservancy's webpage (<https://abcbirds.org/toolkit-tower-operators-engineers/>).

Appendix C

Avoidance Measures by Taxa Group—Fish

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Fish in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNRERReview@wisconsin.gov.

Please note, the avoidance periods referenced below are required for fish listed as Threatened or Endangered and recommended for fish listed as Special Concern.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

1. Is the project at least 300' away from a waterway?

YES. Avoidance measures are met for fish. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 2.

2. Is the project within 300' of a waterway, but will not be impacting the streambed or streambank?

YES. Erosion control is required. With appropriate erosion control measures in place the project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

Also known as erosion control blankets, erosion mats or erosion mesh netting, used to prevent erosion during the establishment of vegetation can have detrimental effects on local snake and other wildlife populations. Plastic netting without independent movement of strands can easily entrap animals moving through the area, leading to dehydration, desiccation, and eventually mortality. Netting that contains biodegradable

Appendix C

Avoidance Measures by Taxa Group—Fish

thread with the “leno” or “gauze” weave (contains strands that are able to move independently) appears to have the least impact on animals and should be used in areas adjacent to or near any waterbody. (e.g.). Avoid the use of fine mesh matting that is tied or bonded at the mesh intersections such that the openings in the mesh are fixed in size.

Use the following matting (or something similar): American Excelsior “FibreNet” or “NetFree” products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN or C125BN; Western Excelsior “All Natural” products or DOT Class I Type A Urban, Class I Type B Urban, or Class II Type C.

NO (the streambed or streambank will be impacted) Continue to question 3.

3. **Is the project occurring during the non-spawning period for all listed fish (from January through mid-April or from September to October)?**

YES. Avoidance measures are met for fish. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 4.

4. **Is the project occurring during the non-spawning period for the specific fish species encountered?**

Refer to the [Wisconsin Fish Spawning Calendar for Species Tracked by the Natural Heritage Inventory](#) to determine the dates for the particular fish species encountered.

YES. Avoidance measures are met for fish. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program with information for the specific fish species.

Contacts

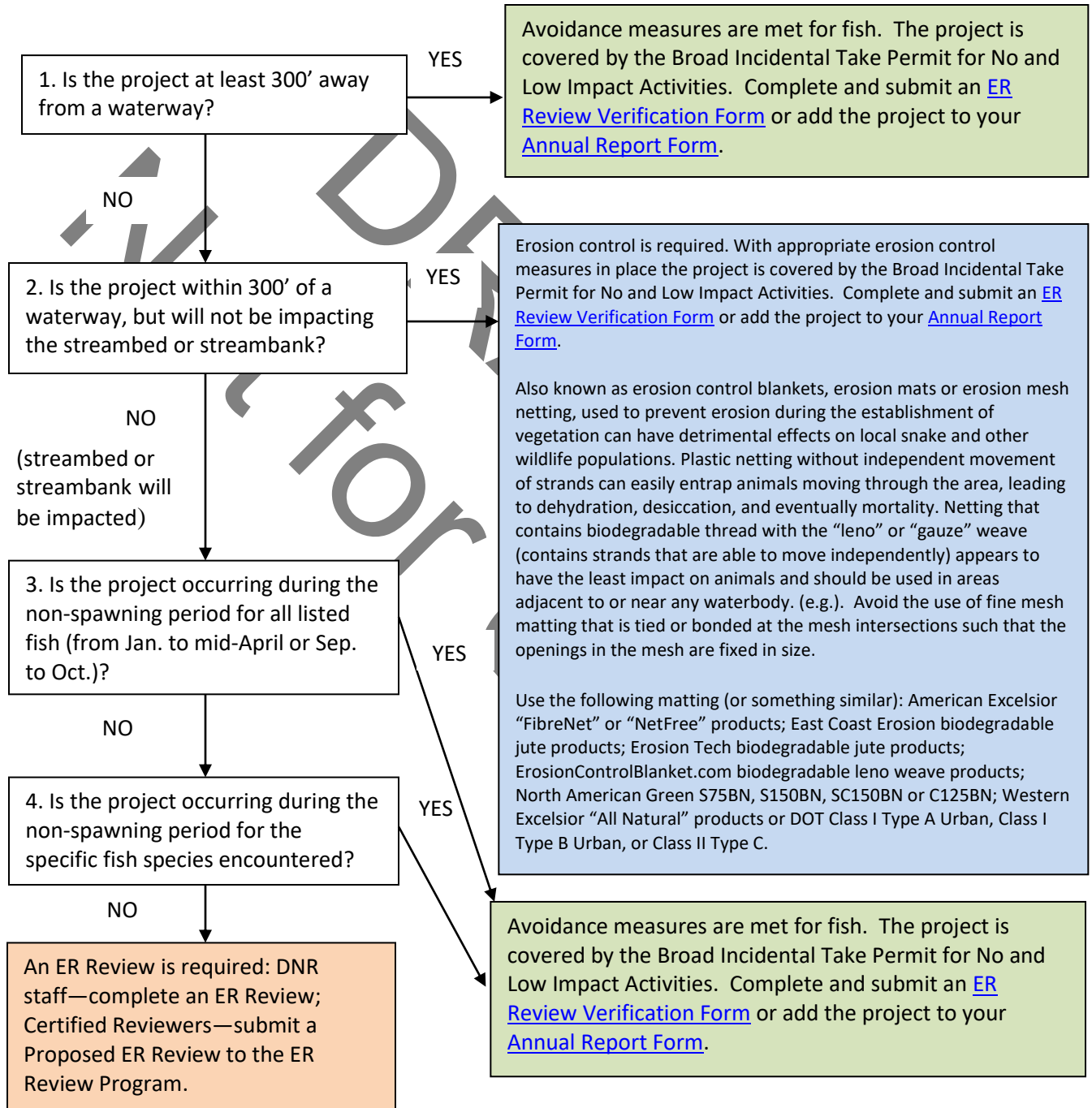
Appendix C
Avoidance Measures by Taxa Group—Fish

Sport fish requirements may also be necessary for water permits. If a project cannot be conducted due to the limitations of the combined dates, or for other questions regarding the review process, please contact [Endangered Resources Review Staff](#) at DNRRERReview@wisconsin.gov.

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Not for Use

Appendix C
Avoidance Measures by Taxa Group—Fish

Taxa Group—Fish, Avoidance Measures Flow Chart



Appendix D

Avoidance Measures by Taxa Group—Herps

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Herps in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Please note, this avoidance measures document only addresses endangered and threatened herps. For projects occurring in suitable habitat for special concern herps, an ER Review is recommended.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

Wood Turtle

1. Is the project within 300 meters (m) (984 feet (ft)) of a waterbody?

YES. Continue to Question 2.

NO. If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

2. Is the project occurring entirely within active agricultural land and greater than 200' from a waterbody?

YES. If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

NO. Continue to Question 3.

Appendix D
Avoidance Measures by Taxa Group—Herps

3. **Is the project occurring in upland or wetland habitat (not within a waterway) and between November 1st and March 14th?**

- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** Refer to the [Wood Turtle Common Activities Broad IT](#). If the project is listed on Page 2 of the Wood Turtle Broad IT as NOT covered, then an ER Review is required, DNR staff—complete an ER Review, Certified Reviewers—submit a Proposed ER Review to the ER Review Program. Otherwise, follow the conservation measures listed in the Wood Turtle Broad IT and an ER Review is not needed.

Eastern Massasauga

4. **Is the project (or a portion of the project) located within Buffalo, Columbia, Jackson, Juneau, La Crosse, Monroe, Pepin, Rock, Sauk, Trempealeau, Walworth or Wood counties (i.e., the primary extant range of the massasauga in Wisconsin)?**

- YES.** An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.
- NO.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

Blanchard's Cricket Frog

5. **Is the project (or a portion of the project) located within Grant, Iowa, Lafayette, or Vernon counties (i.e., the primary extant range of the cricket frog in Wisconsin)?**

YES. Continue to Question 7.

NO. Continue to Question 6.

6. **Is the “last obs” date listed as 1990 or more recent, regardless of the element occurrence precision, OR do we have reason to believe cricket frogs may be present (e.g., recent reports of cricket frogs in the area)?**

YES. Continue to Question 7.

Appendix D
Avoidance Measures by Taxa Group—Herps

- NO.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
7. **Is the project occurring in non-shoreline, upland habitat, greater than 23 m (75 ft) from a lake, pond, stream, river, wetland or other standing water?**
- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** Continue to Question 8.
8. **Is the project occurring in non-shoreline, upland habitat, greater than 15 m (50 ft) from a lake, pond, stream, river, wetland or other standing water, and during the inactive period for the Blanchard's Cricket Frog (from December 1st through March 4th)?**
- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** Go to Question 9.
9. **Does the project involve only restoration or management activities and can the [Grassland and Savanna Protocols](#) be followed?**
- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Appendix D
Avoidance Measures by Taxa Group—Herps

Ornate Box Turtle

For Activity 2-A2, Any activity performed in agricultural land or areas covered in crushed stone or gravel:

Projects occurring in Columbia, Dane, Rock and Sauk counties proceed to question 9.

Projects occurring in Grant, Iowa and Green counties are covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

For all other activities:

10. Is the project entirely within a waterway or standing water?

YES. If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

NO. Continue to Question 11.

11. Does the project involve only restoration or management activities and can the [Grassland and Savanna Protocols](#) be followed?

YES. If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

NO. Continue to Question 12.

12. Does the project involve soil excavation or the use of heavy equipment?

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. Continue to Question 13.

Appendix D
Avoidance Measures by Taxa Group—Herps

13. Is the project occurring during the inactive period for the Ornate Box Turtle (from November 16th to March 4th)?

- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Slender Glass Lizard

14. Is the project entirely within a waterway or standing water?

- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** Continue to Question 15.

15. Does the project involve only restoration or management activities and can the [Grassland and Savanna Protocols](#) be followed?

- YES.** If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.
- NO.** Continue to Question 16.

16. Does the project involve soil excavation or the use of heavy equipment?

- YES.** An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.
- NO.** Continue to Question 17.

Appendix D
Avoidance Measures by Taxa Group—Herps

17. Is the project occurring during the inactive period for the slender glass lizard (between October 16th and March 14th)?

YES. If no other herp species came up in the NHI Portal search, avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other herps, proceed through the remaining questions.

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Other Herps

18. Is the project occurring in upland habitat and within the conditions listed below?

Species	Avoidance Dates/Additional Conditions
Eastern Ribbonsnake	Greater than 10 meters (33ft) from the shoreline of a wetland or water source and occurring from June 1 through August 31 or greater than 175 m (574 ft) from the shoreline of a wetland or water source and occurring from September 1 through May 31
Species	Avoidance Dates/Additional Conditions
Queensnake	Greater than 20 ft (6 m) from the shoreline
Western Ribbonsnake	Greater than 10 m (33 ft) from a wetland or waterbody

YES. Avoidance measures are met for herps. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](#) at DNRRERreview@wisconsin.gov.

Appendix E

Avoidance Measures by Taxa Group—Mammals

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Mammals in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures, contact the Endangered Resources Review Program, DNRERReview@wisconsin.gov.

Please note, this avoidance measures document only addresses endangered and threatened mammals. For projects occurring in suitable habitat for special concern mammals, an ER Review is recommended.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

American Marten

1. Does the project involve tree removal?

YES. Continue to question 2.

NO. If no other listed mammal species came up in the NHI Portal search, avoidance measures are met for mammals. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other mammals, proceed to question 3.

2. Will the tree removal occur between March 15th and May 31st, which is during the pup rearing season?

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. If no other listed mammal species came up in the NHI Portal search, avoidance measures are met for mammals. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other mammals, proceed to question 3.

Appendix E
Avoidance Measures by Taxa Group—Mammals

Northern Long-eared Bat (NLEB)

3. Does the project intersect a NLEB element occurrence (EO)?—either a hibernaculum or maternity roost tree?

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers--submit a Proposed ER Review to the ER Review Program.

NO. If no other listed mammal species came up in the NHI Portal search, avoidance measures are met for mammals. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other mammals, proceed to question 4.

Big Brown Bat, Little Brown Bat, Eastern Pipistrelle (see above for NLEB)

4. Does the project involve tree cutting?

YES. It is recommended that you protect snags or dying trees, particularly from June 1 – August 15, your project will then be covered by this permit. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other bat considerations, proceed to question 5.

NO. Continue to Question 5.

5. Does the project involve building demolition?

YES. For building demolition occurring from June 1 – August 15 with evidence of bat presence (see Appendix 3 of the [Cave Bat Broad Incidental Take Permit and Authorization](#) (BITP/A)):

- Bats must be excluded from the building 5-7 days prior to demolition. Exclusion is not required if the building is unsafe to enter. Report required for unsafe buildings – see “Note” on Page 3 of the [Cave Bat](#) (BITP/A).
- Please note, building demolition occurring from August 16 – May 31 does not have any restrictions however if bats are present, reasonable attempts should be made to prevent take by excluding bats from the building prior to demolition.
- Provided the above measures can be followed, your project will be covered by this permit. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). If these measures cannot be followed, an ER Review is required: DNR staff—complete an ER Review; Certified Reviewers--submit a Proposed ER Review to the ER Review Program. For other bat considerations, proceed to question 6.

Appendix E
Avoidance Measures by Taxa Group—Mammals

NO. Continue to Question 6.

6. Is the project a bridge project?

YES. Follow the guidelines below as presented in the [Cave Bat](#) (BITP/A):

- Bridge repairs or demolition occurring from August 16 – May 31 do not have any restrictions. If bats are present, reasonable attempts should be made to prevent take by excluding the bats from the structure prior to demolition.
- Emergency bridge repairs or demolition occurring from June 1 – August 15 are covered under this permit or authorization but must be reported within 5 working days (report required – see “Note” on Page 3 of the [Cave Bat](#) (BITP/A)).
- Non-emergency bridge repairs or demolition may not occur from June 1 - August 15 unless bats are excluded prior to April 1 to prevent bats from using the bridge during the maternity period.
- Provided the above measures can be followed, your project will be covered by this permit. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). If these measures cannot be followed, an ER Review is required: DNR staff—complete an ER Review; Certified Reviewers--submit a Proposed ER Review to the ER Review Program. For other bat considerations, proceed to question 7.

NO. Continue to Question 7.

7. Is the project a Miscellaneous Building Project (e.g., roofing, painting, siding)?

YES. Follow the guidelines below as presented in the [Cave Bat](#) (BITP/A):

- Projects occurring where there is no evidence of bat presence (see Appendix 3 of the [Cave Bat](#) (BITP/A)) do not have any restrictions.
- Projects occurring from June 1 – August 15 where there is evidence of bat presence (see Appendix 3 [Cave Bat](#) (BITP/A)):
 - For roofing projects during this time period, bats must be excluded from the building 5-7 days prior to the project. Take must still be minimized during the course of the project by following the approved exclusion protocols listed in Appendix 5 of the [Cave Bat](#) (BITP/A). Exclusion practices used that are not described in Appendix 5 are in violation of this permit/authorization.
 - If painting or siding and bats are found behind shutters or siding, set the shutters or siding down and leave the area, once the bats have left, continue with repairs.

Appendix E
Avoidance Measures by Taxa Group—Mammals

- Projects occurring from August 16 – May 31 where there is evidence of bat presence (see Appendix 3 of the [Cave Bat](#) (BITP/A)):
 - Full bat exclusions do not need to be conducted prior to the project, however take must still be minimized during the course of the project by following applicable exclusion protocols listed in Appendix 5 of the [Cave Bat](#) (BITP/A). Exclusion practices used that are not described in Appendix 5 are in violation of this permit/authorization.
 - If painting or siding and bats are found behind shutters or siding, set the shutters or siding down and leave the area, once the bats have left continue with repairs.
 - Provided the above measures can be followed, your project will be covered by this permit. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). If these measures cannot be followed, an ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program. For other mammal species, proceed to question 8.
- NO.** If no other listed mammal species came up in the NHI Portal search, avoidance measures are met for mammals. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other mammals, proceed to question 8.

Gray Wolf

8. Is the project within 0.5 miles of a gray wolf element occurrence (EO)?

- YES.** An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.
- NO.** If no other listed mammal species came up in the NHI Portal search, avoidance measures are met for mammals. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#). For other mammals, proceed through the previous questions.

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](#) at DNRERReview@wisconsin.gov.

Appendix F

Avoidance Measures by Taxa Group—Mussels

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Mussels in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Please note, the below avoidance measures are required for mussels listed as Threatened or Endangered and recommended for mussels listed as Special Concern.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

1. Is the project at least 300' away from a waterway?

YES. Avoidance measures are met for mussels. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 2.

2. Is the project within 300' of a waterway, but will not be impacting the streambed or streambank?

YES. Erosion control is required. With appropriate erosion control measures in place the project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

Also known as erosion control blankets, erosion mats or erosion mesh netting, used to prevent erosion during the establishment of vegetation can have detrimental effects on local snake and other wildlife populations. Plastic netting without independent movement of strands can easily entrap animals moving through the area, leading to dehydration, desiccation, and eventually mortality. Netting that contains biodegradable thread with the “leno” or “gauze” weave (contains strands that are able to move

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Avoidance Measures by Taxa Group—Mussels

independently) appears to have the least impact on animals and should be used in areas adjacent to or near any waterbody. (e.g.). Avoid the use of fine mesh matting that is tied or bonded at the mesh intersections such that the openings in the mesh are fixed in size.

Use the following matting (or something similar): American Excelsior “FibreNet” or “NetFree” products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN or C125BN; Western Excelsior “All Natural” products or DOT Class I Type A Urban, Class I Type B Urban, or Class II Type C.

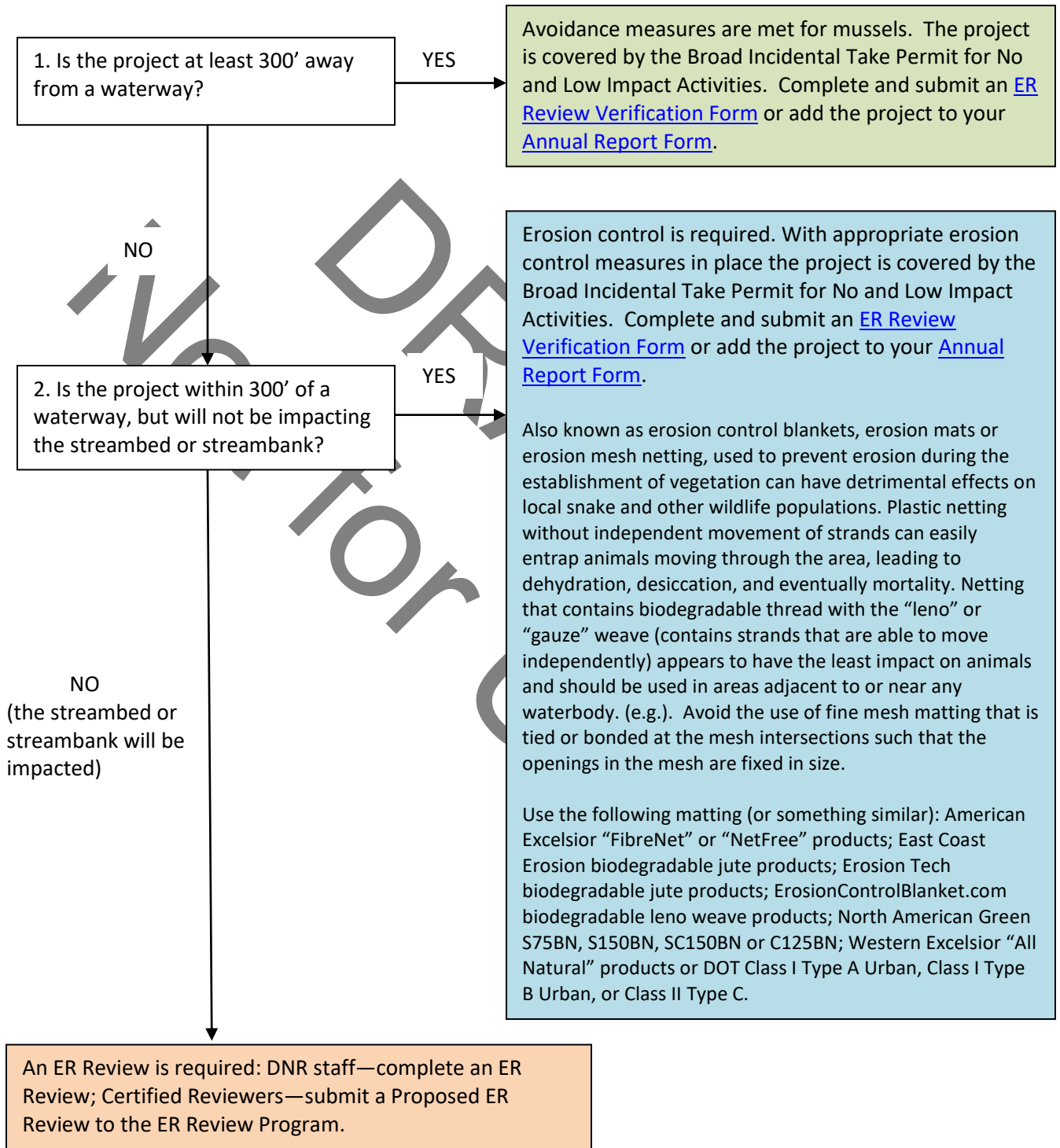
NO (the streambed or streambank will be impacted). An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](mailto:EndangeredResourcesReviewStaff@dnr.wisconsin.gov) at DNRRERReview@wisconsin.gov.

Appendix F
Avoidance Measures by Taxa Group—Mussels

Taxa Group—Mussels, Avoidance Measures Flow Chart



Appendix G

Avoidance Measures by Taxa Group—Plants

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Plants in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by ER Certified Reviewers and DNR staff. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Explanation of Plant Protections

Threatened and endangered plants are protected on public land (Federal lands, State Forests, State Natural Areas, State Parks, other State lands, County or City parks, public school grounds, road rights-of-way, etc.) except in the course of forestry or agricultural practices, in the construction, operation, or maintenance of a utility facility, or as part of bulk sampling activities under s. 295.45. (Wis. Stat. 29.604). "Utility" is defined as including the production, transmission, delivery, or furnishing of electrical power, light, heat, water, natural gas, sewer, or telecommunication services.

The avoidance measures referenced below are required for Threatened and Endangered (T/E) plants on public lands and recommended for T/E plants on private land, T/E plants exempted as explained above and for Special Concern plants on any land type.

Also refer to the [Grassland and Savanna Plant Protocols](#) for potential additional requirements.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

1. Is the specific plant species encountered a tree or a shrub?

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. Continue to question 2.

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Avoidance Measures by Taxa Group—Plants

2. Are the plant records in the aquatic category only, not wetland or terrestrial?

YES. Continue to question 3.

NO. Continue to question 4.

3. Are you avoiding direct contact with waterbodies, waterways, lake beds, shorelines, streambeds or streambanks?

YES. Avoidance measures are met for plants. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

4. Are the plant records in the terrestrial category only, not aquatic or wetland?

YES. Continue to question 5.

NO. Continue to question 6.

5. Is the project (including access and staging areas) occurring entirely within a waterbody with no impacts to land?

YES. Avoidance measures are met for plants. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 6.

6. Is the project crossing an unmanicured public right-of-way or swale?

YES. Continue to question 7.

NO. Continue to question 8.

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Avoidance Measures by Taxa Group—Plants

7. Is one of the following plant species within the NHI buffer areas? *See Note

- Dotted Blazing Star (*Liatris punctata* var. *nebraskana*)
- Dwarf Lake Iris (*Iris lacustris*)
- Dwarf Milkweed (*Asclepias ovalifolia*)
- Floating Marsh Marigold (*Caltha natans*)
- Forked Aster (*Eurybia furcata*)
- Marsh Grass-of-Parnassus (*Parnassia palustris*)
- Neat Spike-rush (*Eleocharis nitida*)
- Clustered Bur-reed (*Sparganium glomeratum*)
- Pale Green Orchid (*Platanthera flava* var. *herbiola*)
- Pale Purple Coneflower (*Echinacea pallida*)
- Purple Milkweed (*Asclepias purpurascens*)
- Round-fruited St. John's-wort (*Hypericum sphaerocarpum*)
- Sand Violet (*Viola sagittata* var. *ovata*)
- Seaside Crowfoot (*Ranunculus cymbalaria*)
- Small Yellow Water Crowfoot (*Ranunculus gmelinii*)
- Sweet Colt's-foot (*Petasites sagittatus*)
- Tea-leaved Willow (*Salix planifolia* ssp. *planifolia*), or
- Wild Hyacinth (*Camassia scilloides*)

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. If the project will be impacting areas outside of a public right-of-way or swale, go to Question 8. If not, avoidance measures are met for plants. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

8. Is the project occurring during frozen ground conditions with no impacts to the plant's root system?

YES. Avoidance measures are met for plants. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. Continue to question 9.

9. Where frozen ground conditions are unreliable, is the project occurring late in the growing season after the specific plant species has gone to fruit, with no impacts to the plant's root system?

Refer to the [Biodiversity Pages for Wisconsin's Rare Plants](#) to determine the dates of the growing season for the particular plant species encountered.

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Avoidance Measures by Taxa Group—Plants

YES. Avoidance measures are met for plants. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

NO. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](#) at DNRRERreview@wisconsin.gov.

*Note: The plants listed in Question 7 are Threatened or Endangered. The following Special Concern species could also be encountered when crossing public right-of-ways or swales and are recommended to be considered:

- Cleft Phlox (*Phlox bifida* ssp. *bifida*)
- Clustered Poppy-mallow (*Callirhoe triangulata*)
- Clustered Sedge (*Carex cumulata*)
- Grassleaf Rush (*Juncus marginatus*)
- Hair-like Sedge (*Carex capillaris*)
- Hoary Tick-trefoil (*Desmodium canescens*)
- Large-flowered Ground-cherry (*Leucophysalis grandiflora*)
- Robyn's Aster (*Symphyotrichum robynsianum*)
- Pale Beardtongue (*Penstemon pallidus*)
- Purple Meadow-parsnip (*Thaspium trifoliatum* var. *flavum*)
- Scarlet Loosestrife (*Ammannia robusta*)
- Silky Prairie-clover (*Dalea villosa* var. *villosa*)
- Silvery Scurf Pea (*Pedimelum argophyllum*)
- Small-flowered Woolly Bean (*Strophostyles leiosperma*)
- Smooth Black Sedge (*Carex nigra*)
- Straw Sedge (*Carex straminea*)
- Vasey's Rush (*Juncus vaseyi*)
- Virginia Meadow-beauty (*Rhexia virginica*)
- Waxleaf Meadowrue (*Thalictrum revolutum*)
- Wild Licorice (*Glycyrrhiza lepidota*)

Appendix H

Avoidance Measures by Taxa Group—Terrestrial and Wetland Inverts

Introduction

Endangered resources (ER) reviews are conducted and/or approved by the DNR for a wide variety of projects each year, ranging from large development projects to small maintenance projects. However, the Department recognizes that some of these projects will have no impact or a very low impact to endangered resources in Wisconsin. Therefore, we have prepared this Avoidance Measures document for the Taxa Group Terrestrial and Wetland Invertebrates in association with the Broad Incidental Take Permit/Authorization for No and Low Impact Activities in order to reduce the number of ER Reviews or Proposed ER Reviews that are required to be prepared.

This document is intended for use by DNR Staff and ER Certified Reviewers. It provides limited avoidance measures, for additional avoidance measures contact the Endangered Resources Review Program, DNREReview@wisconsin.gov.

Please note, the below avoidance measures are required for terrestrial and wetland inverts listed as Threatened or Endangered and recommended for terrestrial and wetland inverts listed as Special Concern.

For the following invert species refer to the [Grassland and Savanna Protocols](#) for potential additional requirements: Frosted Elfin, Northern Blue Butterfly, Ottoe Skipper, Phlox Flower Moth, Prairie (net-veined) Leafhopper, Red-tailed Leafhopper, Regal Fritillary, Robertson's Planthopper, Silphium Borer Moth, Slender Shovel-headed Leafhopper, Swamp Metalmark Butterfly and the Winged Snaggletooth Snail.

Avoidance Measures

In order to determine if your planned activity is covered under the Broad Incidental Take Permit/Authorization for No and Low Impact Activities, proceed through the following questions.

For Terrestrial Snails

An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

For Beetles and Locusts

1. Does the project have the potential to impact the habitat associated with the beetle or locust species that came up in the NHI Portal search?

Species	Habitat
Beetle	
Hairy-necked Tiger Beetle (<i>Cicindela hirticollis rhodensis</i>)	Sand beaches along Lake Superior, Lake Michigan or along large rivers.

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Avoidance Measures by Taxa Group—Terrestrial and Wetland Inverts

Species	Habitat
Locust	
Lake Huron Locust	Exposed, high quality open dunes as well as upper beach areas with very sparse grasses, forbs, and beach shrubs on the northern shores of the Great Lakes.

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. Continue to question 2.

2. Did other terrestrial or wetland invertebrate species come up in the NHI Portal search?

YES. Continue to question 3.

NO. Avoidance measures are met for terrestrial and wetland invertebrates. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

For Butterflies, Moths and Leafhoppers

3. Is there a record of the Karner Blue Butterfly High Potential Range, Northern Blue Butterfly, Ottoe Skipper, Poweshiek Skipperling, Regal Fritillary, Swamp Metalmark in the NHI Portal search?

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. Proceed to question 4.

4. Is there potential for the project site to support the host plant associated with the butterfly, moth or leafhopper species that came up in the NHI Portal search?

Species	Host Plant	Host Plant Habitat
Butterflies and Moths		
Frosted Elfin	Wild lupine	Sandy soils under canopy in dry oak/pine forest
Silphium Borer Moth	Silphium species including prairie dock, cup-plant, rosinweed, and compass plant	Sunny areas in wet to dry-mesic prairies

Appendix H
Avoidance Measures by Taxa Group—Terrestrial and Wetland Inverts

Species	Host Plant	Host Plant Habitat
Butterflies and Moths (continued)		
Phlox Moth	Downy phlox	Pine/oak barrens and scrub oak habitat as well as wet to dry prairies and roadsides on sandy soils
Leafhoppers		
Red-tailed Prairie Leafhopper	Prairie dropseed	Wet to dry, mixed and tallgrass prairie
A Leafhopper (<i>Attenuipyga vanduzeei</i>)	Indiangrass or prairie dropseed	Mixed and tallgrass prairie, open woods, moist or dry fields, dry slopes, roadsides
An Issid Planthopper	Plains muhly	Dry prairies
Prairie Leafhopper	Little bluestem or panic grasses (<i>Dicanthelium</i> spp.)	Upland dry to dry mesic bluff prairies, sand prairies, or sandy barrens supporting prairie grasses

YES. An ER Review is required: DNR staff—complete an ER Review; Certified Reviewers—submit a Proposed ER Review to the ER Review Program.

NO. If no other terrestrial or wetland invertebrate species came up in the NHI Portal search, avoidance measures are met for terrestrial and wetland invertebrates. The project is covered by the Broad Incidental Take Permit for No and Low Impact Activities. Complete and submit an [ER Review Verification Form](#) or add the project to your [Annual Report Form](#).

Contacts

For questions regarding the review process, contact [Endangered Resources Review Staff](#) at DNRERReview@wisconsin.gov.

Appendix I
Overall Flowchart
No/Low Impact Broad Incidental Take Permit
For DNR Staff and ER Certified Reviewers Only

